I. CURRICULUM VITAE

CAROLYN PENSTEIN ROSE

EDUCATION

- Ph.D., Language and Information Technologies, Carnegie Mellon University, December 1997. Thesis advisor: Lori S. Levin

- M.S., Computational Linguistics, Carnegie Mellon University, May, 1994.

- B.S., Information and Computer Science (Magna Cum Laude), University of California at Irvine, June 1992.

EMPLOYMENT

- [2024-present] *Kavčić-Moura Professor of Language Technologies and Human-Computer Interaction*, Language Technologies Institute and Human-Computer Interaction Institute, School of Computer Science, Carnegie Mellon University

- [2017-present] *Professor,* Language Technologies Institute and Human-Computer Interaction Institute, School of Computer Science, Carnegie Mellon University
  - Affiliate faculty in the Institute for Software Research's PhD program in Societal Computing (formerly Computation, Organizations, and Society)
  - Core faculty of English department Minor in Humanities Analytics
  - Former Interim department head of the Language Technologies Institute (8/15/2021-8/15/2023)

- [2018-2025] *Consultant/NLP Domain Expert*, National Institutes of Health, Rehabilitation medicine, Epidemiology and Biostatistics

- [2014-2017] *Associate Professor (With Tenure)*, Language Technologies Institute and Human-Computer Interaction Institute, School of Computer Science, Carnegie Mellon University
  - Affiliate faculty in the Institute for Software Research's PhD program in Societal Computing (formerly Computation, Organizations, and Society)

- [2011-2014] *Associate Professor (Without Tenure)*, Language Technologies Institute and Human-Computer Interaction Institute, School of Computer Science, Carnegie Mellon University

- [2008-2011] *Assistant Professor (Tenure Track)*, Language Technologies Institute and Human-Computer Interaction Institute, School of Computer Science, Carnegie Mellon University

- [2003-2008] *Research Computer Scientist*, Language Technologies Institute and Human-Computer Interaction Institute, School of Computer Science, Carnegie Mellon University

- [1997- 2003] *Research Associate, Learning Research and Development Center, University of Pittsburgh*.
  - Project coordinator in Natural Language Tutoring Group

- [1994-1997] *Teaching Assistant, Computational Linguistics Program, Carnegie Mellon University*.

- [Summer 1993] *Summer Research Internship, Apple Computer, San José, CA.*

- [1992-1994] *Research Assistant, Center for Machine Translation, Carnegie Mellon University*.

- [Summer 1991] *Research Internship, Minority Summer Research Internship Program, UC Irvine.*

- [1990-1992] *Honors Research, University of California at Irvine.*

PERSONAL

- US Citizen

- Homepage: http://www.cs.cmu.edu/~cprose

II. PUBLICATION LIST

BOOKS

1. Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (2013). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.
2. Cress, U., Rosé, C. P., Oshima, J., Wise, A. F. (2021). **International Handbook of Computer-Supported Collaborative Learning,** Springer.

CHAPTERS IN BOOKS

1. Wu, Z., Dutt, R., Rosé, C. P. Social Analytics: Then and Now. In Ben du Boulay (Editor). **Handbook of AI in Education**
2. James Fiacco, Shiyan Jiang, David Adamson, Carolyn P Rosé (2023). Learning Analytics. in Ian Wilkinson and Judy Parr (section eds.) **International Encyclopedia of Education**, volume on Learning, cognition, and human development, 4th edition, Elsevier.
3. Rosé, C. P., Riggs, M., Barbarao, N. (2022). Social Analytics to Support Engagement with Learning Communities, in Ben du Boulay, Antonija Mitrovic, Kalina Yacef (Eds.) **Handbook of Artificial Intelligence in Education**, Springer.
4. Rosé, C. P. & Dimitriadis, Y. (2021). Tools and Resources for Setting Up Collaborative Spaces, , in Cress, Rosé, Oshima, &Wise (Eds**.) International Handbook of Computer-Supported Collaborative Learning,** Springer.
5. Borge, M. & Rosé, C. P. (2021). Quantitative approaches to language in CSCL, in Cress, Rosé, Oshima, &Wise (Eds**.) International Handbook of Computer-Supported Collaborative Learning,** Springer.
6. Chen, B., Haklev, S., Rosé, C. P. (2021). Collaborative Learning at Scale, in Cress, Rosé, Oshima, &Wise (Eds**.) International Handbook of Computer-Supported Collaborative Learning,** Springer.
7. Rosé, C. P., Clarke, S., Resnick, L. (2019). Scaling Up Ambitious Learning Practices, In Dirk Van Damme, Sonia Guerriero, Soo-Siang Lim & Patricia Kuhl (Eds.) **Science of Learning**, OECD.
8. Clarke, S. N., Resnick, L. B., Rosé, C. P. (2018) Discourse Analytics for Learning, in D. Niemi, R. Pea, C. Dick, & B. Saxberg (Eds.) **Learning Analytics in Education**, Information Age Publishing
9. Baker, R.S. Wang, Y., Paquette, L., Aleven, V., Popsecu, O., Sewall, J., Rosé, C., Tomar, G., Ferschke, O., Zhang, J., Cennamo, M., Ogden, S., Condit, T., Diaz, J., Crossley, S., McNamara, D., Comer, D., Lynch, C., Brown, R., Barnes, T., Bergner, Y. (in press) A MOOC on Educational Data Mining. To appear in ElAtia, S., Zaiane, O.R.,Ipperciel, D. (Eds.) **Handbook of Data Mining and Learning Analytics**. Hoboken, NJ: Wiley.
10. Rosé, C. P., Howley, I., Wen, M., Yang, D., & Ferschke, O. (2017). Assessment of Discussion in Learning Contexts, invited chapter in A. von Davier, M. Zhu, & P. Kyllonon (Eds.) **Innovative Assessment of Collaboration**. New York, NY: Springer Verlag.
11. Rosé, C. P. (2017). Discourse Analytics, **Handbook of Data Mining and Learning Analytics**. Hoboken, NJ: Wiley.
12. Rosé, C. P. (2018). Learning analytics in the Learning Sciences, invited chapter in F. Fischer, C. Hmelo-Silver, S. Goldman, & P. Reimann (Eds.) **International Handbook of the Learning Sciences,** Taylor & Francis.
13. Clarke, S., Resnick, L. & Rosé, C. P. (2015). Dialogic Instruction: A New Frontier. In Corno, L. & Anderman, E. (Eds.). **Handbook of Educational Psychology,** 3rd Edition,

pp 378-389, Routledge.

14. Rosé, C. P. & Lund, K. (2013). Methods for Multivocality, in Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (Eds.). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.
15. Lund, K., Rosé, C. P., Suthers, D., & Baker, M. (2013). Theoretical perspectives on multivocality, in Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (Eds.). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.
16. Dyke, G., Howley, I., Adamson, D., Kumar, R., Rosé, C. P. (2013). Towards Academically Productive Talk Supported by Conversational Agents, in Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (Eds.). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.
17. Howley, I., Kumar, R., Mayfield, E., Dyke, G., & Rosé, C. P. (2013). Gaining Insights from Sociolinguistic Style Analysis for Redesign of Conversational Agent Based Support for Collaborative Learning, in Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (Eds.). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.
18. Howley, I., Mayfield, E., Rosé, C. P., & Strijbos, J. W. (2013). A Multivocal Process Analysis of Social Positioning in Study Group Interactions, in Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (Eds.). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.
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20. Suthers, D., Lund, K., Law, N., Rosé, C. P., & Teplovs, C. (2013). Achieving Multivocality in the Analysis of Group Interactions, in Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (Eds.). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.
21. Rosé, C. P. & Tovares, A. (2015). What Sociolinguistics and Machine Learning Have to Say to One Another about Interaction Analysis, in Resnick, L., Asterhan, C., Clarke, S. (Eds.) **Socializing Intelligence Through Academic Talk and Dialogue**, **Washington, DC: American Educational Research Association.**
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23. Howley, I., Mayfield, E. & Rosé, C. P. (2013). Linguistic Analysis Methods for Studying Small Groups, in Cindy Hmelo-Silver, Angela O'Donnell, Carol Chan, & Clark Chin (Eds.) **International Handbook of Collaborative Learning**, Taylor and Francis, Inc.
24. Sionti, M, Claudino, L., Markantonatou, S., Rosé, C. P., & Aloimonos, Y. (2012). Semantic Clusters Combined with Kinematics: the Case with English Motion Verbs, in Nikolaos Lavidas (Ed.) **Selected Papers from the 20th International Symposium on Theoretical and Applied Linguistics,** Thessaloniki Greece, April 2011.
25. Rosé, C. P. (2012). Assessing Socio-Emotional Learning, in Luckin, R., Underwood, J., Winters, N., Goodyear, P., Grabowski, B., Puntambekar, S. (Eds.) **Handbook of Educational Technology**, Taylor & Francis.
26. Stahl, G. & Rosé, C. P. (2011). Group Cognition in Online Teams, in Salas, E., Fiore, S., & Letsky, M. (Eds.) **Theories of Team Cognition: Cross-Disciplinary Perspectives**, Section V: Social Psychology and Communication Perspectives, American Psychological Society.
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31. Rosé, C. P., and Lavie, A. (2001). Balancing Robustness and Efficiency in Unification-augmented Context-Free Parsers for Large Practical Applications. In van Noord and Junqua (Eds.), **Robustness in Language and Speech Technology**, ELSNET series, Kluwer Academic Press.
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33. Rosé, C. P. & Waibel, A. H. (1997). Recovering from Parser Failures: A Hybrid Statistical/Symbolic Approach, in J. Klavans and P. Resnik (eds*.),* **The Balancing Act: Combining Symbolic and Statistical Approaches to Language Processing**, MIT Press.
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36. Rosé, C. P., Kumar, R., Aleven, V., Robinson, A., Wu, C. (2006). CycleTalk: Data Driven Design of Support for Simulation Based Learning, *International Journal of Artificial Intelligence in Education Special Issue on The Best of ITS '04,* 16, 195-223.
37. Litman, D., Rosé, C. P., Forbes-Riley, K., Silliman, S., & VanLehn, K. (2006). Spoken Versus Typed Human and Computer Dialogue Tutoring, *International Journal of Artificial Intelligence in Education Special Issue on The Best of ITS '04,* 16, pp145-170.
38. VanLehn, K., Graesser, A., Jackson, G. T., Jordan, P., Olney, A., Rosé, C. P., (2007). Natural Language Tutoring: A comparison of human tutors, computer tutors, and text. *Cognitive Science 3*1(1), 3-52 **(Impact factor: 2.59)**
39. Rosé, C. P., Wang, Y.C., Cui, Y., Arguello, J., Stegmann, K., Weinberger, A., Fischer, F., (2008). Analyzing Collaborative Learning Processes Automatically: Exploiting the Advances of Computational Linguistics in Computer-Supported Collaborative Learning, submitted to the *International Journal of Computer Supported Collaborative Learning 3(3),* pp237-271. (**Impact factor: 2.68**)
40. Sherwani, J., Ali, N., Rosé, C. P., Rosenfeld, R. (2009). Orality-Grounded HCID: Understanding the Oral User, *Information Technologies & International Development 5(4),* pp37-49 **(Impact factor 2.35)**
41. Gupta, N. K. & Rosé, C. P. (2010). Understanding Instructional Support Needs of Emerging Internet Users for Web-based Information Seeking, *Journal of Educational Data Mining* 2(1), pp 38-82.
42. Kumar, R. & Rosé, C. P. (2011). Architecture for building Conversational Agents that support Collaborative Learning, *IEEE Transactions on Learning Technologies, 4(1),* pp 21-34 **(Impact factor: 4)**

43. Wang, H. C., Rose, C. P., Chang, C. Y. (2011). Agent-based Dynamic Support for Learning from Collaborative Brainstorming in Scientific Inquiry, *International Journal of Computer Supported Collaborative Learning* 6(3), pp 371-396.
44. Xiang, G., Hong, J., Rosé, C. P., Cranor, L., (2011). CANTINA+: A Feature-rich Machine Learning Framework for Detecting Phishing Web Sites, submitted to *ACM Transactions on Information and System Security (TISSEC) 14,* pp2-21.
45. Mu, J., Stegmann, K., Mayfield, E., Rosé, C. P., Fischer, F. (2012). The ACODEA Framework: Developing Segmentation and Classification Schemes for Fully Automatic Analysis of Online Discussions. *International Journal of Computer Supported Collaborative Learning7(2),* pp285-305.
46. Habte, B., Finger, S., Rosé, C. P. (2013). E-Learning in Engineering through Videoconferencing: The case of Addis Ababa Institute of Technology, *International Journal of Engineering Pedagogy (iJEP)* 3(2).
47. Gweon, G., Jain, M., Mc Donough, J., Raj, B., Rosé, C. P. (2013). Measuring Prevalence of Other-Oriented Transactive Contributions Using an Automated Measure of Speech Style Accommodation, *International Journal of Computer Supported Collaborative Learning* 8(2), pp 245-265.
48. Dyke, G., Adamson, A., Howley, I., & Rosé, C. P. (2013). Enhancing Scientific Reasoning and Discussion with Conversational Agents, *IEEE Transactions on Learning Technologies* 6(3), special issue on Science Teaching, pp 240-247.
49. Kumar, R. & Rosé, C. P. (2014). Triggering Effective Social Support for Online Groups. *ACM Transactions on Interactive Intelligent Systems* 3 (4).
50. Mayfield, E., Laws, B., Wilson, I., & Rosé, C. P. (2014). Automating Annotation of Information Flow for Analysis of Clinical Conversation, *Journal of the American Medical Informatics Association 21 (1), pp 122-128.* **(impact factor 3.6)**
51. Adamson, D., Dyke, G., Jang, H. J., Rosé, C. P. (2014). Towards an Agile Approach to Adapting Dynamic Collaboration Support to Student Needs, *International Journal of AI in Education* 24(1), pp91-121.
52. Yang, D., Wen, M., Kumar, A., Xing, E., Rosé, C. P. (2014). Towards an Integration of Text and Graph Clustering Methods as a Lens for Studying Social Interaction in MOOCs, *The International Review of Research in Open and Distance Learning 15(5),* Special Issue on the MOOC Research Initiative
53. Rosé, C. P., Goldman, P., Sherer, J. Z., Resnick, L. (2015). Supportive Technologies for Group Discussion in MOOCs, *Current Issues in Emerging eLearning*, Special issue on MOOCs, 2(1), article 5.
54. Koedinger, K., Brunskill, E., D'mello, S., Pardos, Z., Rosé, C. P. (2015). Data Mining and Education, *WIRES Cognitive Science 6(4),* pp333-353.
55. Clarke, S. N., Howley, I., Resnick, L. B., Rosé, C. P. (2016) Student Agency to Participate in Dialogic Science Discussions. *Learning, Culture and Social Interaction 10*, pp27-39
56. Rosé, C. P. & Ferschke, O. (2016). Technology Support for Discussion Based Learning: From Computer Supported Collaborative Learning to the Future of Massive Open Online Courses, *International Journal of AI in Education*, 25th Anniversary Edition, volume *26*(2), pp 660-678
57. Towne, B., Rosé, C. P., & Herbsleb, J. (2016). Measuring Similarity Similarity: LDA and Human Perception, *ACM Transactions on Intelligent Systems and Technology,* Volume 8 Issue 1, Article 7 **(impact factor 2.41)**
58. Nguyen, D., Dogruöz, A. S., Rosé, C. P., de Jong, F. (2016). Computational Sociolinguistics: A Survey, *Computational Linguistics 42 (3), pp 537-593*. **(impact factor 2.2)**
59. Yang, D., Kraut, R., Rosé, C. (2016). Exploring the Effect of Student Confusion in Massive Open Online Courses, *Journal of Educational Data Mining* 8(1), pp 52-83 **(impact factor 3.68)**
60. Howley, I. & Rosé, C. P. (2016). Towards Careful Practices for Automated Linguistic Analysis of Group Learning, *Journal of Learning Analytics* 3(3), pp 239-262 http://dx.doi.org/10.18608/jla.2016.33.12

61. Gweon, G., Jun, S., Finger, S. & Rosé, C. P. (2017). Towards Effective Group Work Assessment: Even What You Don't See Can Bias You, *Journal of Design and Technology Education, 27*(1), 165-180.
62. Rosé, C. P. (2017). Expediting the cycle of data to intervention, *Learning: Research and Practice 3(1)*, special issue on Learning Analytics, pp 59-62
63. Rosé, C. P. (2017). A social spin on language analysis, *Nature* Vol 545, pp 166-167 (invited) **(impact factor 42.3)**
64. Naik, A., Lohmueller, L., Rosé, C. P., Antaki, J. (2017). Improving Decision Support Tools for LVAD Recipients via Computational Analyses of Online Support Group Discussions, *Journal of Cardiac Failure* 23(8), pp107-108. **(impact factor 3.26)**
65. Sionti, M., Claudino, L., Aloimonos, Y., Rose, C. P., & Markantonatou, S. (2017). Semantic Clusters Combined with Kinematics: The Case of English and Modern Greek Motion Verbs. *Selected papers on theoretical and applied linguistics*, *20*(1), 495-510.
66. Su, Y., Li, Y., Hu, H., Rosé, C. P. (2018). Exploring College English Language Learners' Self and Social Regulation of Learning During Wiki-supported Collaborative Reading Activities, *International Journal of Computer-Supported Collaborative Learning 13*(1), 35-60
67. Borge, M., Ong, Y. S., Rosé, C. P. (2018). Learning to Monitor and Regulate Collective Thinking Processes, *International Journal of Computer-Supported Collaborative Learning 13*(1), 61-92
68. Rosé, C. P., McLaughlin, E., Liu, R., and Koedinger, K. (2019). Explanatory Learning Models: Why Machine Learning (Alone) is not the Answer. Special issue on Learning Analytics and AI 2025: Politics, Pedagogy, and Practices, *British Journal of Educational Technology* 50(6), pp 2943-2958 (impact factor 2.72)
69. Lohmueller, L., Naik, A., Breitfeller, L., McIlvennan, DNP, Manreet Kanwar, Srinivas, M., Rosé, C. P., Antaki, J. (2019). Factors Affecting Healthcare Engagement of Patients with End-Stage Heart Failure: An Exploratory Survey Study, *Medical Decision Making Policy and Practice Journal*
70. Zhang, T., Sahinidis, N., Rosé, C. P., Amaran, S., Shuang, B. (2019). Forty years of Computers and Chemical Engineering: Analysis of the field vis text mining techniques, *Computers & Chemical Engineering* Volume 129, https://doi.org/10.1016/j.compchemeng.2019.106511 (impact factor 3.37).
71. Rosé, C. P. (2019). Monolith, Multiplicity or Multivocality: What do we stand for and where do we go from here? *Journal of Learning Analytics* 6(3), pp 31-34.
72. Sankaranarayanan, S., Kandimalla, S., Cao, M., Maona, I., An, H., Bogart, C., Murray, R. C., Hilton, M., Sakr, M., Rosé, C. P. (2020). Designing for Learning During Online Collaborative Projects: Tools and Takeaways, *Information and Learning Sciences*
73. Newman-Griffis D, Divita G, Desmet B, Zirikly A, Rosé CP, Fosler-Lussier E. (2020) Ambiguity in Medical Concept Normalization: An Analysis of Types and Coverage in Electronic Health Record Datasets. *Journal of the American Medical Informatics Association* (impact factor 4.1)
74. Bao, H., Li, Y., Su, Y., Xing, S., Chen, N., Rosé, C. P. (2021). The effects of a learning analytics dashboard on teachers' diagnosis and intervention in computer-supported collaborative learning, Technology, *Pedagogy and Education 30 (2).*
75. Pammer-Schindler, V. & Rosé, C. P. (2021). Data-related Ethics Issues in Technologies for Informal Professional Learning**.** *International Journal of AI in Education, special issue on the FATE of AIED*
76. Shikhar Vashishth, Denis Newman-Griffis, Rishabh Joshi, Ritam Dutt, Carolyn Rosé (2021). Improving Broad-Coverage Medical Entity Linking with Semantic Type Prediction and Large-Scale Datasets, *Journal of Biomedical Informatics* (impact factor 3.5)
77. Rosé, C. P. (2021). Enlichenment: insights towards AI impact in education through a mycelial partnership between research, policy, and practice. *AI Matters*, *7*(2), 10-11.
78. Naik, A., Lehman, J. F., Rosé, C. P. (2022). Adapting to the Long Tail: A Meta-Analysis of Transfer Learning Research for Language Understanding Tasks. *Transactions of the Association for Computational Linguistics*

79. Wang, Q., Rosé, C. P., Jiang, S., Bao, H., Li, Y. (2022). Design and application of automatic feedback scaffolding in forums to promote learning. *IEEE Transactions on Learning Technologies*.
80. Sankaranarayanan, S., Bogart, C., Murray, R. C., Hilton, M., Sakr, M., Rosé, C. P. (2022). Collaborative Programming for Work-Relevant Learning: Comparing Programming Practice with Example-Based Reflection for Student Learning and Transfer Task Performance, *IEEE Transactions on Learning Technologies special issue on Designing Technologies to Support Professional and Workplace Learning for Situated Practice*
81. Jiang, S., Nocera, A., Tatar, C., Yoder, M., Chao, J., Weidemann, K., Finzer, W., Rosé, C. P. (2022). An Empirical Analysis of High School Students' Modeling Unstructured Data. *British Journal of Educational Technology* (impact factor 4.9)
82. Wolfbauer, I., Pammer-Schindler, V., Maiz, K., & Rosé, C. P. (2022). A Script for Conversational Reflection Guidance: A Field Study on Developing Reflection Competence with Apprentices, *IEEE Transactions on Learning Technologies special issue on Designing Technologies to Support Professional and Workplace Learning for Situated Practice*
83. Jiang, S., Qian, Y., Tang, H., Yalcinkaua, R., Rosé, C. P., Chiao, J., Finzer, W. (2022). Computational Thinking Processes in Modeling Unstructured Data, *Education and Information Technologies*
84. Jiang, S., Tang, H., Tatar, C., Rosé, C. P., Chao, J. (2023). High school students' data modeling practices and processes: From modeling unstructured data to evaluating automated decisions, *Learning, Media and Technology*
85. Tatar, C., Jiang, S., Rosé, C. P., & Chao, J. (2024). Exploring Teachers' Views and Confidence in the Integration of an Artificial Intelligence Curriculum into Their Classrooms: A Case Study of Curricular Co-Design Program. *International Journal of Artificial Intelligence in Education*
86. Jiang, S., McClure, J., Tatar, C., Bickel, F. K., Rosé, C. P., Chao, J. (2024). Toward Inclusivity in Artificial Intelligence: A Comparative Study of Cognitive Engagement between Marginalized Female Students and Peers *The British Journal of Educational Technology*
87. Naik, A, Yin, J., Ma, Q., Wu, S. T., Murray, C., Bogart, C., Sakr, M., Rosé, C. P. (2025). Providing Tailored Reflection Instructions in Collaborative Learning Using Large Language Models, *British Journal of Educational Technology*
88. Dang, B., Cukurova, M., Hyunh, L., Gul, F., Rosé, C., Jarvela, S., Nguyen, A. (2025). Human-AI Collaborative Learning in Mixed Reality: Examining the cognitive and socio-emotional interactions, *British Journal of Educational Technology*
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2. Naik, A., Baghel, L., Govindarajan, D., Agarwal, D., Xie, Y., Fried, D., Rose, C. P. (2026). MetaLint: Easy-to-Hard Generalization for Code Linting, **Proceedings of COLM 2026: Conference on Language Models**
3. Waheed, A., Wu, Z., Rosé, C. P., Ipollito, D. (2026). On Code-Induced Reasoning in LLMs, **Proceedings of The Fourteenth International Conference on Learning Representations (ICLR 2026)**
4. Hecong Wang, Meng Wang, Erfan Farhadi, Asad Shahab, Yuanzhu Li, Haozheng Du, Carolyn Rose, Hangfeng He and Zhen Bai (2026). Small Arguments, Big Ideas:

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5. Wu, Z., Dutt, R., Breitfeller, L., Nourbakhsh, A., Parekh, S., Rosé, C. P. (2025). R2-CoD: Understanding Text-Graph Complementarity in Relational Reasoning vis Knowledge Co-Distillation, **Proceedings of IJCNLP-AACL (Outstanding paper award)**
6. Dutt, R., Rosé, C. P., Sap, M. (2025). SOCIAL SCAFFOLDS: A Generalization Framework for Social Understanding Tasks, **Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing**.
7. Ghandi, S., Naik, A., Xie, Y., Rosé, C. P., (2025). An Empirical Study on Strong-Weak Collaboration for Repo-Level Code Generation, **Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing**.
8. Zheng, M., Hu, W., Zhao, P., Eslami, M., Hwang, J., Brahman, F., Rosé, C. P., Sap, M. (2025). Let them down easy! Contextual effects of LLM Guardrails on User Perceptions and Preferences, **Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing**.
9. Xie, Y., Fried, D., Rosé, C. P. (2025). RepoST: Scalable Repository-Level Coding Environment Construction with Sandbox Testing, **Proceedings of the Conference on Language Modeling**
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12. Atharva Naik, Darsh Agrawal, Hong Sng, Clayton Marr, Kexun Zhang, Nathaniel Romney Robinson, Kalvin Chang, Rebecca Byrnes, Aravind Mysore, Carolyn Rose, David R Mortensen (2025). Programming by Example meets Historical Linguistics: A Large Language Model Based Approach to Sound Law Induction, **Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics**
13. Xie, Y., Fried, D., Rose, C. P. (2025). Improving Model Factuality with Fine-grained Critique-based Evaluator. **Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics**
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17. Ojeda-Ramirez, S., Rich, A., Huang, J., Speer, S., Rosé, C. P., Orta Martinez, M., Peppler, K. (2025). Weaving Collaboration: Promoting Effective Interdisciplinary Learning with a Robotic Loom **Proceedings of the Annual Meeting of the International Society of the Learning Sciences**, Computer-Supported Collaborative Learning Program
18. Bickel, F., Jiang, S., Ellis, R., Chao, J., Rosé, C. P. (2025). K-12 AI Education: Exploring Gender Differences in Achievement Motivation, Self-Efficacy, and Performance **Proceedings of the Annual Meeting of the International Society of the Learning Sciences**, International Conference of the Learning Sciences Program (short paper)

19. Tatar, C., Zhang, Y., Jung, Y., Chao, J., Rosé, C. P. (2025). Unlocking Young Minds: How K-12 Students Define Artificial Intelligence and Machine Learning **Proceedings of the Annual Meeting of the International Society of the Learning Sciences**, International Conference of the Learning Sciences Program (poster)
20. Huang, J., Han, S., Speer, S., Santiago, O., Rosé, C. P., Orta Martinez, M., Peppler, K. (2025). Crafting Computational Thinking with Rope Weaving, **Proceedings of the Annual Meeting of the International Society of the Learning Sciences**, Computer-Supported Collaborative Learning Program (poster)
21. Naik, A., Alenius, M., Fried, D., Rose, C. P. (2025). CRScore: Grounding Automated Evaluation of Code Review Comments in Code Claims and Smells. **Proceedings of the Annual meeting of the North American Chapter of the Association for Computational Linguistics**
22. Nourbakhsh, A., Parekh, A., Zhao, J., Rose, C, P. (2025). Where is this coming from? Making groundedness count in the evaluation of Document VQA models. **Findings of the Annual meeting of the North American Chapter of the Association for Computational Linguistics**
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24. Nourbakhsh, A., Jin, Z., Parekh, S., Shah, S., & Rose, C. (2024, November). AliGATr: Graph-based layout generation for form understanding. In **Findings of the Association for Computational Linguistics: EMNLP 2024** (pp. 13309-13328).
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28. Nourbakhsh, A., Rosé, C. P. (2024).Towards a new research agenda for multimodal enterprise document understanding: What are we missing? **Findings of the 62nd Annual Meeting of the Association for Computational Linguistics**
29. Xie, Y., Rosé, C. P. (2024). DocLens: Multi-aspect Fine-grained Medical Text Evaluation **Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics**
30. Zhou, C., Ao, D., Rosé, C. P. (2024). Estimating Agreement by Chance for Sequence Annotation **Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics**
31. Dutt, R., Wu, Z,, Shi, J., Sheth, D., Gupta, P., Rosé, C. P. (2024). Leveraging Machine-Generated Rationales to Facilitate Social Meaning Detection in Conversations. . **Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics**
32. Naik, Atharva, Yin, Jessica, Kamanth, Anusha, Ma, Qianou, Wu, Sherry Tongshuang, Murray, R Charles, Sakr, Majd, and Rosé, Carolyn (2024). Generating Situated Reflection Prompts About Alternative Solution Paths: A Case Study in Generative AI for Computer-Supported Collaborative Learning, **Proceedings of AI in Education**
33. Jeanne McClure, Juan Zheng, Franziska Bickel, Shiyan Jiang, Carolyn P. Rosé and Jie Chao (2024). Modeling with Primary Sources: An Approach to Teach Data Bias for Artificial Intelligence and Machine Learning Education, **Proceedings of the Annual**

Meeting of the International Society of the Learning Sciences (best design paper award)

34. Jeanne McClure, Shiyan Jiang, Jie Chao, Carolyn Rose and Franziska Bickel (2024). Navigating Cognitive Engagement in AI-Enhanced Education: Lexical Diversity and Open-Ended Inquiry in Journalism Learning, **Proceedings of the Annual Meeting of the International Society of the Learning Sciences**
35. Bruce McLaren, Lauren Herckis, Leah Teffera, Lee Brandstetter, Carolyn Rosé, Majd Sakr, Matt Kisow, R Reis, Matt Rinsem, et al. (2024). Community College Information Technology Education: Curriculum Mapping, a Learning Science Framework, and AI Learning Technologies**, Proceedings of the Annual Meeting of AERA, Division C - Learning and Instruction/Division C - Section 3b: Technology-Based Environments**
36. Sireesh Gururaja, Ritam Dutt, Tinglong Liao and Carolyn Rosé (2023). Linguistic representations for fewer-shot relation extraction across domains. **Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics**
37. Y Xie, A Naik, D Fried, C Rose (2023). Data Augmentation for Code Translation with Comparable Corpora and Multiple References, **Proceedings of Findings of Empirical Methods in Natural Language Processing**
38. Armineh Nourbakhsh, Sameena Shah and Carolyn Rosé(2023). Using counterfactual contrast to improve compositional generalization for multi-step quantitative reasoning. **Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics**
39. James Fiacco, David Adamson and Carolyn Rosé (2023). Towards Extracting and Understanding the Implicit Rubrics of Transformer Based Automatic Essay Scoring Models. **Proceedings of the 18th Workshop on Innovative Use of NLP for Building Educational Applications**
40. Belle Dang, Rosanna Vitiello, Andy Nguyen, Carolyn Rose and Sanna Järvelä (2023). How Do Students Deliberate for Socially Shared Regulation in Collaborative Learning? A Process-Oriented Approach, in **Proceedings of the Annual Meeting of the International Society of the Learning Sciences** (full paper, CSCL)
41. Cristina Villa-Torrano, Rosanna Vitiello, Jiaxin Shi, Carolyn P. Rosé, Juan I. Asensio-Pérez, Yannis Dimitriadis, Eduardo Gómez-Sánchez and Miguel Bote-Lorenzo (2023). Towards visible Socially-Shared Regulation of Learning: Exploring the role of Learning Design, in **Proceedings of the Annual Meeting of the International Society of the Learning Sciences** (short paper, CSCL)
42. Nickolina Yankova, Joey Huang, Rosanna Vitiello, Samantha Speer, Melisa Orta-Martinez, Carolyn Rose and Kylie Peppler (2023). "Where is the Z-axis?": Negotiating Understanding of Servo Rotation through Gestures and Tools, in **Proceedings of the Annual Meeting of the International Society of the Learning Sciences** (short paper, ICLS)
43. Tatar, C., McClure, J., Bickel, F., Ellis, R., Wiedemann, K., Chao, J., Jiang, S., & Rosé, C. P. (2023). Examining high school students' self-efficacy in machine learning practices. In Blikstein, P., Van Aalst, J., Kizito, R., & Brennan, K. (Eds.), **Proceedings of the 17th International Conference of the Learning Sciences - ICLS 2023** (pp. 1434-1437). International Society of the Learning Sciences.
44. Speer, Samantha, Ana P. Garcia-Alonzo, Joey Huang, Nickolina Yankova, Carolyn Rose, Kylie Peppler, James McCann, and Melisa Orta Martinez (2023, October). SPEERLoom: An Open-Source Loom Kit for Interdisciplinary Engagement in Math, Engineering, and Textiles. In **Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology** (UIST 2023)
45. Rosanna Vitiello, Joey Huang, Samantha Speer, Nickolina Yankova, Kylie Peppler, Melisa Orta-Martinez and Carolyn Rose (2023). Studying Interdisciplinary Collaboration as a Core Skill, in **Proceedings of the Annual Meeting of the International Society of the Learning Sciences** (poster, CSCL)
46. Rosanna Vitiello, Soham Tiwari, R. Charles Murray, Carolyn P. Rosé (2023). Traveling Bazaar: Portable Support for Face-to-Face Collaboration, Community

Proceedings of the Annual Meeting of the International Society of the Learning Sciences (demo, CSCL)

47. Luis Morales-Navarro, Yasmin Kafai, Francisco Castro, William Payne, Kayla Desportes, Daniella DiPaola, Randi Williams, Safinah Ali, Cynthia Breazeal, Clifford Lee, Elisabeth Soep, Duri Long, Brian Magerko, Jaemarie Solyst, Amy Ogan, Cansu Tatar, Shiyan Jiang, Jie Chao, Carolyn P. Rosé and Sepehr Vakil (2023). Making Sense of Machine Learning: Integrating Youth's Conceptual, Creative, and Critical Understandings of AI, in **Proceedings of the Annual Meeting of the International Society of the Learning Sciences** (symposium, ICLS)
48. Jie Chao, William Finzer, Carolyn Rosé, Shiyan Jiang, Rebecca Ellis, Kenia Wiedemann, Cansu Tatar, and James Fiacco (2023). Teach Artificial Intelligence with StoryQ: A Web-Based Machine Learning and Text Mining Tool for K-12 Students. **Proceedings of the SIGCSE TS demo track**.
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50. Armineh Nourbakhsh, Cathy Jiao, Sameena Shah and Carolyn Rosé (2022). Improving compositional generalization for multi-step quantitative reasoning in question answering, **Proceedings of EMNLP '22.**
51. Justin Lovelace and Carolyn Rosé (2022). A Framework for Adapting Pre-Trained Language Models to Knowledge Graph Completion, **Proceedings of EMNLP '22**.
52. Yu, Juntao, Sopan Khosla, Ramesh Manuvinakurike, Lori Levin, Vincent Ng, Massimo Poesio, Michael Strube, and Carolyn Rosé (2022). The CODI-CRAC 2022 Shared Task on Anaphora, Bridging, and Discourse Deixis in **The Proceedings of the CODI-CRAC Shared Task on Anaphora, Bridging, and Discourse Deixis in Dialogue**
53. Agarwal, S., Vitiello, R., & Rosé, C. P. (2022). Model Transfer for Event tracking as Transcript Understanding for Videos of Small Group Interaction, **Proceedings of the First Workshop on Transcript Understanding (TU-COLING-2022)**
54. Agarwal, S., Tripathi, S., Mitamura, T., & Rose, C. (2022, July). Zero-shot cross-lingual open domain question answering. In **Proceedings of the Workshop on Multilingual Information Access (MIA)** (pp. 91-99).
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57. Shen, Q. & Rosé, C. P. (2022). A Tale of Two Subreddits: Measuring the Impacts of Quarantines on Political Engagement on Reddit, in **Proceedings of the International Conference on Weblogs and Social Media**
58. Sreecharan Sankaranarayanan, Lanmingqi Ma, Siddharth Reddy Kandimalla, Ihor Markevych, Huy Nguyen, R. Charles Murray, Christopher Bogart, Michael Hilton, Majd Sakr and Carolyn Rose (2022). Collaborative Reflection "in the flow" of Programming: Designing Effective Collaborative Learning Activities in Advanced Computer Science Contexts. **Proceedings of the 2nd Annual Meeting of the International Society for the Learning Sciences**
59. Sebastian Strauß, Julia Eberle, Isis Tunnigkeit, Leonie Fey Vom Bovert, Nikol Rummel, Matthias Witti, Jan Zottmann, Birgit Wershofen, Frank Fischer, Martin R. Fischer, Anuli Ndubuisi, Jim Slotta, Elham Marzi, Marcela Borge, Tugce Aldemir, José Soto and Carolyn Rosé (2022). Learning to Build Bridges: Promoting Skills for Complex Collaboration Across Professional and Cultural Boundaries. **Proceedings of the 2nd Annual Meeting of the International Society for the Learning Sciences**

60. Shiyan Jiang, Kayla Desportes, Yoav Bergner, Helen Zhang, Irene Lee, Katherine Moore, Yihong Cheng, Beatriz Paris, Benjamin Walsh, Aaron Guggenheim, Bridget Dalton, Stacey Forsyth, Tom Yeh, Bita Akram, Spencer Yoder, William Finzer, Jie Chao, Carolyn Rosé, William Payne, Francisco Castro-Norwood and Kathleen McDermott (2022). Agents, Models, and Ethics: Importance of Interdisciplinary Explorations in AI Education. **Proceedings of the 2nd Annual Meeting of the International Society for the Learning Sciences**
61. Andy Nguyen, Sanna Järvelä, Yansen Wang and Carolyn Rose (2022). Exploring Socially Shared Regulation with an AI Deep Learning Approach Using Multimodal Data. **Proceedings of the 2nd Annual Meeting of the International Society for the Learning Sciences**
62. Cansu Tatar, Shiyan Jiang, Jie Chao, Kenia Wiedemann, James Fiacco, William Finzer and Carolyn Rose (2022). Examining Learning Opportunities for Integrating AI Education in English Language Art Classrooms. **Proceedings of the 2nd Annual Meeting of the International Society for the Learning Sciences**
63. William Finzer, Jie Chao, Carolyn Rosé and Shiyan Jiang (2022). StoryQ—An Online Environment for Machine Learning of Text Classification, **Proceedings of the Twelfth AAAI Symposium on Educational Advances in Artificial Intelligence (EAAI-22)**, February 26-27, 2022
64. Jie Chao, William Finzer, Carolyn Rosé, Shiyan Jiang, Michael Yoder, James Fiacco, Chas Murray, Cansu Tatar and Kenia Wiedemann (2022). StoryQ: A Web-Based Machine Learning and Text Mining Tool for K-12 Students, **Proceedings of the SIGCSE Technical Symposium**
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66. Lovelace, J., Newman-Griffis, D., Vashishth, S., Lehman, J. F., Rosé, C. P. (2021). Robust Knowledge Graph Completion with Stacked Convolutions and a Student Re-Ranking Network, in **Proceedings of ACL-IJCNLP 2021**.
67. Lu, X., Fan, Z., Wang, Y., Oh, J., & Rosé, C. P. (2021). Localize, group, and select: Boosting text-vqa by scene text modeling. In **Proceedings of the IEEE/CVF International Conference on Computer Vision** (pp. 2631-2639).
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70. Newman-Griffis, D., Lehman, J. F., Rosé, C. P., & Hochheiser, H. (2021). Translational NLP: A New Paradigm and General Principles for Natural Language Processing Research. **Proceedings of the North American Chapter of the Association for Computational Linguistics** (full paper)
71. Khosla, S., Fiacco, J. & Rosé, C. P. (2021). Evaluating the Impact of a Hierarchical Discourse Representation on Entity Coreference Resolution Performance. **Proceedings of the North American Chapter of the Association for Computational Linguistics** (short paper)
72. Dutt, R., Hillaire, G., Fang, A., Larke, L., Rosé, C., & Reich, J. (2021, March 30-April 2). Investigating adoption and collaboration with digital clinical simulations by teacher educators, **Proceedings of SITE 2021 Conference**, Online. https://site.aace.org/conf/ (*paper award*)
73. Fiacco, J., Haan, K., Woolley, A., Rosé, C. P. (2021). Taking Transactivity Detection to a New Level, **Proceedings of the First Annual Meeting of the International Society of the Learning Sciences** (Full paper, *best paper award*)
74. Sankaranarayanan, S., Kandimalla, S., Bogart, C., Murray, R. C., An. H., Hilton, M., Sakr, M., Rosé, C. P. (2021). Comparing Example-Based Collaborative Reflection to

Problem-Solving Practice for Learning during Team-Based Software Engineering Projects, **Proceedings of the First Annual Meeting of the International Society of the Learning Sciences** (Short paper)

75. Sreecharan Sankaranarayanan, Siddharth Reddy Kandimalla, Christopher Bogart, R Charles Murray, Michael Hilton, Majd Sakr, Carolyn Rosé (2021). Combining Collaborative Reflection based on Worked-Out Examples with Problem-Solving Practice: Designing Collaborative Programming Projects for Learning at Scale. **Proceedings of ACM Learning at Scale**.
76. Tatar, C., Yoder, M., Coven, M., Wiedermann, K., Chao, J. Finzer, W., Jiang, S., Rosé, C. P. (2021). Modeling Unstructured Data: Teachers as Learners and Designers of Technology-enhanced Artificial Intelligence Curriculum, **Proceedings of the First Annual Meeting of the International Society of the Learning Sciences** (Short paper)
77. Ngueyen, A., Järvelä, S., Wang, Y., Rosé, C. P., Malmberg, J., & Järvenoja, H. (2021). Multimodal Deep Learning Model for Detecting Types of Interactions for Regulation in Collaborative Learning, **Proceedings of the First Annual Meeting of the International Society of the Learning Sciences** (Poster)
78. Ritam Dutt, Sayan Sinha, Rishabh Joshi, Surya Shekhar Chakraborty, Meredith Riggs, Xinru Yan, Haogang Bao and Carolyn Rose (2021). ResPer: Computationally Modelling Resisting Strategies in Persuasive Conversations. **Proceedings of the 2021 Conference of the European Chapter of the Association for Computational Linguistics**
79. Qinlan Shen and Carolyn Rose (2021). What sounds ``right'' to me?: Experiential Factors in the Perception of Political Ideology. **Proceedings of the 2021 Conference of the European Chapter of the Association for Computational Linguistics**
80. Aakanksha Naik, Jill Fain Lehman and Carolyn Rose (2021). Adapting Event Extractors to Medical Data: Bridging the Covariate Shift. **Proceedings of the 2021 Conference of the European Chapter of the Association for Computational Linguistics**
81. Wang, X., Yang, K., Thompson, M., Roy, D., Reich, J., Koedinger, K., Rosé, C. P. (2021). Practice-Based Teacher Questioning Strategy Training with ELK: A Role-Playing Simulation for Eliciting Learner Knowledge, **Proceedings of CSCW**
82. Wang, X., Rosé, C. P., Koedinger, K. (2021). Seeing Beyond Expert Blind Spots: Online Learning Design for Scale and Quality, **Proceedings of the 2021 ACM Conference on Human Factors in Computing Systems (CHI'21)**
83. Barbaro, N., Riggs, M., Levin, J., Rosé, C. P. (2020). The Impact of Social Support During the COVID 19 Pandemic on Academic Outcomes Across Diverse Students, **Proceedings of the Annual Meeting of the American Education Research Association**
84. Sopan Khosla and Carolyn Rosé (2020). Using Type Information to Improve Entity Coreference Resolution**. Proceedings of CODI 2020: 1st Workshop on Computational Approaches to Discourse.**
85. Sopan Khosla, Shikhar Vashishth, Jill Fain Lehman and Carolyn Rosé (2020). Improving Detection and Categorization of Task-relevant Utterances through Integration of Discourse Structure and Ontological Knowledge, **Proceedings of The 2020 Conference on Empirical Methods in Natural Language Processing**
86. Yansen Wang, Zhen Fan and Carolyn Rosé (2020). Incorporating Multimodal Information in Open-Domain Web Keyphrase Extraction, **Proceedings of The 2020 Conference on Empirical Methods in Natural Language Processing**
87. Ritam Dutt, Rishabh Joshi and Carolyn Rosé (2020). Keeping Up Appearances: Computational Modeling of Face Acts in Persuasion Oriented Discussions, **Proceedings of The 2020 Conference on Empirical Methods in Natural Language Processing**
88. Wolfbauer, I.; Pammer-Schindler, V.; Rosé, C. Rebo Junior: Analysis of Dialogue Structure Quality for a Reflection Guidance Chatbot. **EC-TEL Impact Paper Proceedings 2020: 15th European Conference on Technology Enhanced Learning (**CEUR Workshop Proceedings**),** 2020.
89. Sreecharan Sankaranarayanan, Siddharth Reddy Kandimalla, Sahil Hasan, Haokang An, Christopher Bogart, R. Charles Murray, Michael Hilton, Majd Sakr and Carolyn Rose

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91. Michael Yoder, Qinlan Shen, Yansen Wang, Alex Coda, Yunseok Jang, Yale Song, Kapil Thadani and Carolyn Rosé (2020). Phans, Stans and Cishets: Self-Presentation Effects on Content Propagation in Tumblr, **Proceedings of Websci 2020**
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93. Yang, Q., Steinfeld, A., Rosé, C., Zimmerman. J. (2020). Re-examining Whether, Why, and How Human-AI Interaction Is Uniquely Difficult to Design, **Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems**, DOI 10.1145/3313831.3376301 (honorable mention award)
94. Samridhi Choudhary, Christopher Bogart, Carolyn Rose and James Herbsleb (2020). Using productive collaboration bursts to analyze open source collaboration effectiveness. **Proceedings of the 27th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER),** at Western University in London, Ontario, Canada, February 18-21, 2020.
95. Sankaranarayanan, S., Kandimallla, S. R., Hasan, S., An, H., Murray, R. C., Hilton, M., Sakr, M., Rosé, C. P. (2020). Creating Opportunities for Transactive Exchange for Learning in Performance-Oriented Team Projects, **Proceedings of ICLS 2020** (poster).
96. Larke, L., Hillaire, G., Dutt, R., Rosé, C., Reich, J., 2020. Cognitive Dissonance and Equity: Designing Digital Simulations for K-12 Computer Science Teacher Education, **Proceedings of ICLS 2020** (poster).
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99. Naik, A., Breitfeller, L., Rosé, C. P. (2019). TDDiscourse: A Dataset for Discourse-Level Temporal Ordering of Events. **Proceedings of the 20th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2019),** Stockholm, Sweeden.
100. Fiacco, J., Chaudhary, S. & Rosé, C. P. (2019). Deep Neural Model Inspection and Comparison via Functional Neuron Pathways. **Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics.**
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102. Yan, X., Naik, A., Jo, Y., Rosé, C. P. (2019). Using Functional Schemas to Understand Social Media Narratives. **Proceedings of StoryNLP@ACL**
103. Shen, Q. & Rosé, C. P. (2019). The Discourse of Online Content Moderation: Investigating Polarized User Responses to Changes in Reddit's Quarantine Policy, **Proceedings of the Abusive Language Workshop (AWL@ACL2019)**
104. Shiyan Jiang, Kexin Yang, Chandrakumari Suvarna, Pooja Casula, Mingtong Zhang and Carolyn Rose (2019). Applying Rhetorical Structure Theory to Student Essays for Providing Automated Writing Feedback, **Proceedings of Discourse Relation Parsing and Treebanking (DISRPT)**
105. Fiacco, J., Cotos, E., Rosé, C. P. (2019). Towards Enabling Feedback on Rhetorical Structure with Neural Sequence Models, **Proceedings of Learning Analytics and Knowledge (LAK'19)** *(Nominated for a Best Paper Award)*

106. Sankaranarayanan, S., Dashti, C., Bogart, C., Wang, X., Marshall An, Clarence Ngoh, Michael Hilton, Sakr, M., Rosé, C. (2019). Online Mob Programming: Bridging the 21st Century Workplace and the Classroom, **Proceedings of Computer-Supported Collaborative Learning** (Volume II, Poster).
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108. Wang, X., Talluri, S., Rosé, C. P., & Koedinger, K. (2019). UpGrade: Sourcing Student Open-Ended Solutions to Generate Scalable Learning Opportunities, **Proceedings of ACM Learning ar Scale (L@S2019).**
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114. Fiacco, J. & Rosé, C. P. (2018). Towards Domain General Detection of Transactive Knowledge Building Behavior, in **Proceedings of Learning at Scale**.
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38. Rosé C. P. & Kraut, R. E. (2005). Towards Community Building for Improving Retention and Achievement in Asynchronous Distance Education, **Proceedings of the Interact 2005 Workshop on E-Learning and Human Computer Interaction**
39. Rosé C. P., Cavalli-Sforza, V., & Robinson, A. (2005). Adapting to and from student goal orientation in guided exploratory learning, invited Symposium presentation, **EARLI Symposium on Adaptation in Tutoring and Collaborative Learning**
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45. Rosé, C. P., VanLehn, K. & NLT Group (2003). Is Human Tutoring Always More Effective than Reading, **Proceedings of AIED Workshop on Tutorial Dialogue Systems: With a View Towards the Classroom.**
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47. Rosé, C. P., VanLehn, K., Jordan, P. (2002). Can we help students with a high initial competency?, **Proceedings of ITS Workshop on Empirical Methods for Tutorial Dialogue Systems**, San Sebastian, Spain.
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50. Rosé, C. P. (2000). Facilitating the Rapid Development of Language Understanding Interfaces for Tutoring Systems, **Proceedings of the AAAI Fall Symposium on Building Tutorial Dialogue Systems**
51. Mason, M. & Rosé, C. P. (1998). Learning Constraints for Plan-Based Discourse Processors With Genetic Programming, **AAAI Spring Symposium on Discourse and Machine Learning.**
52. Rosé, C. P. (1996). A Genetic Programming Approach to Robust Interactive Dialogue Interpretation, **American Association of Artificial Intelligence Workshop on Detecting, Repairing, and Preventing Human-Machine Miscommunication**, Portland, Oregon.
53. Rosé, C. P. (1995). Conversation Acts, Interactional Structure, and Conversational Outcomes, **Proceedings of the American Association of Artificial Intelligence Spring Symposium on Empirical Methods in Discourse Interpretation and Generation**

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55. Woszczyna, M., Coccaro, N., Eisele, A., Lavie, A., McNair, A., Polzin, T., Rogina, I., Rosé, C. P., Sloboda, T., Tsutsumi, J., Aoki-Waibel, N., Waibel, A., Ward, W. (1993). Recent Advances in JANUS: A Speech Translation System, **ARPA Proceedings of the Human Language Technologies Workshop.**

TECHNICAL REPORTS

56. Rosé, C. P. (1997). **Robust Interactive Dialogue Interpretation** , Ph.D. Dissertation, School of Computer Science, Carnegie Mellon University.

SOFTWARE ARTIFACTS

Last Updated Feb 12, 2014

57. *The LCFLex* robust parser
58. *The CARMEL Workbench*, including technology and general purpose knowledge sources for authoring robust language understanding interfaces for English, being used or having been used in 9 universities in the US, Europe, and Asia
59. *TagHelper Tools*, a resource for supporting content analysis of corpus data *[Google Analytics counter indicates that 3,447 new users from 91 countries have downloaded TagHelper tools since July '07 (4,448 downloads)] as of February, 2014, with 6,635 total downloads as of Dec of 2015.*
60. *TuTalk*, an authoring environment for tutorial dialogue agents
61. *LightSIDE: the Summarization Integrated Development Environment*, a general purpose text mining tool bench. The total number of downloads as of May 1, 2016 is 11,557.
62. *Bazaar*, architecture for development of multi-agent dynamic support for collaborative learning
63. *DANCE* website (http://dance.cs.cmu.edu), hundreds of return visitors each month
64. *MedType:* Type based medical concept normalization tool, https://github.com/svjan5/medtype, https://medtype.github.io/

III. EVIDENCE OF EXTERNAL REPUTATION

CITATIONS AND AWARDS

- ETRD/AECT Distinguished Development Award, November 2026
- Outstanding paper award, AACL-IJCNLP 2025
- Finalist in the 2025 Amazon Nova Trusted AI Challenge
- Honorable mention at the 2nd GenBench Workshop on Generalisation (Benchmarking) in NLP, Fall 2024
- Winner of best design paper award, International Conference of the Learning Sciences, 2024

- 2021 Association for the Advancement of Computing in Education paper award
- American Association for the Advancement of Science Fellow of the Leshner Leadership Institute for Public Engagement with Science, focusing on Artificial Intelligence, 2020-2021Cohort
- Top Downloaded Paper in the British Journal of Educational Technollogy (2018-2019)
- IEEE Senior Member since April 2018
- Inaugural Fellow, International Society for the Learning Sciences, 2017
- Winner of Honorable Mention Award at ACM SIG-CHI, 2006, 2007, 2020
- Winner of Best Student Paper Award at International Joint Conference on Natural Language Processing (IJCNLP) 2017
- Lee B. Lusted Best Student Poster award at the 39th Annual Meeting of the Society for Medical Decision Making, 2017
- Winner of Best Student Paper Award at Computer Supported Collaborative Learning (CSCL) 2011
- Winner of Best Paper Award at Computer Supported Collaborative Learning (CSCL) 2021
- Leadership Award, International Society for the Learning Sciences, June 2016
- Semifinalist for the 2008 Elsevier Grand Challenge (14% acceptance rate)
- Winner of Best Poster Award at the Intelligent Tutoring Systems conference (ITS), 2006
- Nominated for Best Paper Award at Learning Analytics and Knowledge (LAK'19)
- "Area chair favorite" paper at COLING 2018
- Nominated for Best Paper Award at Computer Supported Collaborative Learning (CSCL), 2005, 2015
- Nominated for Best Paper Award at the International Conference of the Learning Science (ICLS) 2012
- Nominated for best technical design award, CSCL 2009
- Nominated for Best Student Paper Award at Computer Supported Collaborative Learning (CSCL), 2007
- Language Technologies Institute Faculty Fellowship Award (Jr. Faculty Chair), July 2007-2009
- Nominated for Best Paper Award at the Intelligent Tutoring Systems conference (ITS), 2006
- Nominated for Best Paper Award at AI in Education Conference, 2001, 2007.
- Carnegie Scholar Award, Carnegie Mellon University, 1994-1997.
- Phi Beta Kappa, University of California at Irvine, 1991.
- Golden Key National Honor Society, University of California at Irvine, 1991.

- Simms Memorial Scholarship, University of California at Irvine, 1991-1992.

INVITED TALKS

- **Distinguished Keynote Speaker**,13th International Conference on Signal Processing and Integrated Networks (SPIN 2027) on 25-26 February 2027 through Hybrid Mode at Amity University, Noida, UP, India
- **Keynote speaker,** International Conference on Natural Language Processing (ICON), Guwahati, India, December 2026
- **Keynote Speaker,** AI for Education Singapore Conference (AIFE 2026), to be held from 16-18 November 2026 at the National Institute of Education (NIE), Nanyang Technological University (NTU), Singapore.
- **Invited Speaker,** AI beyond ChatGPT**,** 5th International conference on Science and Technology Education, October 1-2 2026, Portugal (to be delivered remotely)
- **Invited Discussant,** Empathic Computing Frontier Forum, 12:30 PM, October 12, 2026 (Adelaide Time)
- **Invited Plenary Speaker,** Workshop on Human-Centered ML**,** Apple Park, August 2026
- **Invited Speaker,** the Global Smart Education Conference 2026 (GSE2026), 18–20 August 2026 at Beijing Normal University, Beijing, China
- **Keynote Speaker,** Second International Workshop on Hybrid Intelligence: Human-AI Collaboration and Learning, Learning Analytics and Knowledge Conference, Bergen, Norway, April 27, 2026 (in person)
- **Invited Speaker,** Computational Social Science Workshop, University of Chicago, March 2026
- **Company Talk Speaker,** AI2, February 2026
- **Invited Panelist,** First Workshop on LLM Persona Modeling , NeurIPS 2025, Mexico City, December 2025 (remote delivery)
- **Keynote Speaker,** 7th International Conference on Artificial Intelligence and Speech Technology, November 27-28, AIST 2025 (remote delivery)
- **Keynote Speaker,** International Conference on Business Intelligence and Data Science (ICBIDS'25), November 14-15, 2025 (remote delivery)
- **Invited Speaker,** Global Smart Education Conference (GSE2025), co-organized by Beijing Normal University (BNU) and UNESCO Institute for Information Technologies in Education (UNESCO IITE) from 18th to 20th August 2025 at Beijing Normal University (BNU), China (remote delivery, August 2025)
- **Keynote Speaker,** 8th International Conference on Computational Intelligence and Data Science (ICCIDS 2025) (remote delivery)
- **Invited Panelist,** Hybrid Intelligence Workshop, Learning Analytics and Knowledge 2025
- **Invited Panelist,** Generative AI for Dialogue Coding and Training workshop, ISLS 2025, Helsinki, Finland
- **Plenary Speaker,** 10th International Conference on Computer and Information Science and Technology (CIST 2025) (remote delivery, August 2025)
- **Invited Symposium Speaker,** Learning with and About AI, ISLS 2025, Helinki Finland
- **Invited Speaker,** Minerva Gentner Symposium "Green NLP for Understanding Complex Information", May 21 to 23, 2025, Birlinghoven castle, Germany

- **Invited Discussant,** Symposium on What does it mean to be literate in the time of AI? Different Perspectives on Learning and Teaching AI Literacies in K-12 Education, Annual Meeting of the International Society of the Learning Sciences, Summer 2024
- **Keynote Speaker,** Annual Meeting of the International Educational Data Mining Society (EDM), July 16, 2024
- **Keynote Speaker,** ODSC East Virtual Conference, April 24, 2024
- **Invited Speaker,** SUNY IAD Days, Institute for Artificial Intelligence and Data Science, Spring 2024
- **Invited Panelist,** Human-Centered Large Language Modeling Workshop, Annual Meeting of the Association for Computational Linguistics, Summer 2024
- **Invited Discussant,** Symposium on Theory-Driven Development of Classroom Orchestration Tools to Support Learning at Multiple Social Planes, Annual Meeting of the American Education Research Association, Spring 2024
- **Invited Speaker,** AI and Open Education session, Open 2030, funded by the William and Flora Hewlet Foundation, December 2023
- **Workshop Keynote Speaker,** 3rd Workshop on NLP for Medical Conversations, collocated with IJCNLP-AACL 2023, Bali, Indonesia, November 2023
- **Invited Panelist,** IEEE Biomedical Health Informatics (BHI) at the Soldiers and Sailors Museum from Oct. 16-18th 2023
- **Invited Panelest**, Grace Hopper Conference, September 2023
- **Invited panelist and facilitator,** Special Session on Generative AI and ISLS, Annual Meeting of the International Society of the Learning Sciences, June 2023
- **Invited Panelist**, Internet2 Community Exchange, Atlanta, GA, May 2023
- **Invited Speaker,** 3rd Workshop on Women in AI and Finance
- **Keynote Expert,** NSF Convergence Accelerator: PAL, October 2022
- **Opening Keynote speaker**, May 20, 2022, AI in Education, Chinese Research Network
- Invited speaker, July 7, 2022, JP Morgan Distinguished Lecture
- Invited speaker, Oct 7 2022, *Preparing the Workforce of the Future, CMU* (invited by Lee Branstetter)
- **Plenary Speaker, 2022,** 19th Annual Technology for Second Language Learning (TSLL) Conference, Iowa State, October 14-15, 2022
- **Keynote Speaker,** 2022 International Conference on Open and Innovative Education (ICOIE 2022), Hong Kong, 13–15 July 2022 [11:00 pm – 12:00 am on 14 July 2022]
- Invited Speaker, 2021 Global Smart Education Conference (GCE 2021), Beijing Normal University, August 20, 2021
- Invited speaker/panelist, virtual ATP EdTech and Computational Psychometrics Summit, December 9, 2021.
- **Keynote Speaker,** 2021 LASER Summer Institute, June 21, 2021
- Invited Speaker, Enlichenment: Insights Towards AI Impact in Education through a Mycelial Partnership between Research, Policy, and Practice, SIG AI Learning Webinar, June 2021
- **Invited Speaker**, AI Enabled Mobs for Learning with Carolyn Rosé, Mob mentality podcast, July 1, 2021
    - https://twitter.com/mob__mentality/status/1411675600448675846
    - https://www.linkedin.com/posts/austin-chadwick-3a58151a4_ai-mobprogramming-ensembleprogramming-activity-6817441751511519232-p1BM

    - https://www.linkedin.com/posts/austin-chadwick-3a58151a4_ai-enabled-mobs-for-learning-with-carolyn-activity-6823221062898204672-gchw https://twitter.com/mob__mentality/status/1417456209146171393
- **Keynote Speaker,** 2021 Encuentro Nacional de Computación (ENC 2021), Mexican Society on Computer Science A.C. in Mexico, August 10, 2021, 10am EDT
- **Invited Speaker,** Innovations in Artificial Intelligence for Education Research plenary session at the 2021 meeting of the National Academy of Education (NAEd), breakout on Automated Analysis of Collaborative Learning Processes, Washington DC, November 12, 2021
- **Invited Speaker,** CMU Summit, Panel on Online Education, April 2021
- **Invited Panelist,** The 4th session of the MDEpiNet Annual Meeting Series, January 2021
- **Invited Speaker,** Measurable Creative AI, Workshop at CVPR'21 (June 19 to June 25, 2021)
- **Keynote Speaker:** The 2021 Meeting of the International Society of the Learning Sciences, June 7-11, Bochum, Germany, hosted online
- **Keynote Speaker:** 2021 International Conference on Program Comprehension (Colocated with the International Conference on Software Engineering), "A Layered Model of Comprehension in Collaborative Software Development: Programs, Programming, and Programmers", May 2021
- **Invited Panelist,** If you build it, will they come? Panel at the Annual Meeting of the American Educational Research Association, April 2021
- **Invited Panelist,** New Challenges for Educational Technology in the Time of the Pandemic, BEA Workshop, April 2021
- **Keynote Speaker:** 2020 International Conference on Computer Assisted Language Learning, December 5-6, 2020, Beijing, China
- **Invited Speaker,** The power of intelligent conversation systems in collaborative learning, NeurIPS 2020 workshop on Advances and Opportunities: Machine Learning for Education, December 2020
- **Discussant,** Symposium Cosima & Learning Analytics, University of Munich, July 2020
- **Invited Speaker,** Learning Data Institute Workshop at the 2020 Educational Data Mining Conference, July 2020
- **Panelist,** Panel on How AI Can Support Learning Under COVID-19 and Beyond, hosted by Alelo, July 2020
- **Panelist,** Panel on COVID-19 and the Future of AI in Education and Training, AIED 2020 (https://www.slideshare.net/LewisJohnson34/covid19-and-the-future-of-ai-in-education-and-training), July 2020
- **Distinguished Computational Linguistics Lecture**, Rochester Institute of Technology, March 2019
- Panelist, Widening the Lens through Multiple Glasses: A Multi-Society Perspective on Studying CSCL, Computer-Supported Collaborative Learning conference, June 2019, Lyon, France
- Invited Speaker, China-US Smart Education Conference, University of North Texas, March 2019
- Invited Speaker, Israeli Symposium on Learning Analytics, March, 2019, Rehovot, Israel

- Symposium Presentation, CSCL Gets to Work: Towards Collaborative Learning with Working Professionals, Symposium: Group Formation in the Digital Age: Relevant Characteristics, their Diagnosis, and Combination for Productive Collaboration, talk given by student author, Computer-Supported Collaborative Learning, Lyon, France, June 2019.
- **Keynote Speaker,** Learning and Education with Web Data (LILE'19), collocated with WebSci'19, Boston, MI, US on 30 June, 2019
- **Keynote Speaker,** Synthesis and Design Workshop on Digitally-Mediated Team Learning, Balancing Learning and Productivity Through Shared Cognition in Team-Based Learning, Orlando, FL, March 2019
- Invited Speaker, European Association of Technology-Enhanced Learning (EATEL) Bi-annual Webinar on The Profession, session on Interdisciplinarity, December 2018.
- Honorable Speaker, 4th "Belt and Road Open Education Learning Week" co-hosted by Open Educational Resources lab and Design &Learning Lab, Beijing Normal University, on the theme of "How will emerging IT reshape learning and industry?", October 2018
- Discussant, Crowdsourcing and Education: Towards a Theory and Praxis of Learnersourcing, International Conference of the Learning Sciences, London, UK, June 2018.
- **Keynote Speaker**, 10th Knowledge Management & E-Learning (KM&EL) workshop, Beijing, China, May 23, 2018
- **Keynote Speaker**, "Lifelong Learning in a Web Scale Opportunity Space", 13th European Conference on Technology Enhanced Learning, Leeds, UK, September 3-6, 2018
- **Keynote Speaker**, 56th Annual Meeting of the Association for Computational Linguistics, "The Who is the Bridge between the What and the How", July 2018, Melbourne, Australia.
- Invited Symposium Speaker, Agent-based support for collaborative discourse, Towards citizenship with deliberative argumentation and technologies for new political education, Biennial meeting of the European Association for Research on Learning and Instruction, Finland, September 2017
- Invited Symposium Speaker, The Interplay of Cognitive, Social, and Metacognitive processes in collaboration: Can the threads be disentangled?, Symposium entitled "What you say and how you say it: Social and content-related processes and their interplay in instructional communication", Society for Text and Discourse, Philadelphia, August 2017
- Invited Panelist, EC-TEL panel on Alliance of Learning Sciences Societies, Tallin, Estonia, Fall 2017
- **Keynote Speaker** and Tutorial Instructor, Discourse Analytics, Workshop on Education and Social Science Technologies (WESST), National University of Singapore, Singapore, July 2017
- Panelist, Quo vadis CSCL? Considering Directions for the Future of CSCL Research, CSCL 2017, June 2017, Philadelphia
- Discussant, Measuring and supporting CSCL at scale, CSCL 2017, June 2017, Philadelphia

- **Keynote speaker**, The 21t Global Chinese Conference on Computers in Education, Beijing, June 2017
    - Additionally: Invited visitor at the Advanced Innovation Center for Future Education and Invited talk at Beijing Normal University
- Invited co-presenter, Symposium: Making a Difference: Analytics for Quality Knowledge-Building Conversations, Computer-Supported Collaborative Learning 2017
- Invited Talk, NSF funded workshop on The Future of Cyber-Social Learning Systems, sponsored through the CCC, Nov 2, 2016.
- Invited Talk, American College Testing (ACT)'s Insight Analytics & Emerging Technologies Symposium, November 2016
- Invited Tutorial on Discourse Analytics (expanded to tutorial on LearnSphere in collaboration with Ken Koedinger and John Stamper), Learning Analytics Summer Institute (Co-Organized by the Society for Learning Analytics Research and the School of Informatics at the University of Michigan), June 2016, University of Michigan
- Invited Symposium Chair, Symposium on Learning Analytics, International Conference of the Learning Sciences, June 2016.
- Symposium Talk, Symposium on The Learning Sciences @ Scale: Current Developments in Open Online Learning, International Conference of the Learning Sciences, June 2016
- Symposium Talk, Fostering deliberative argumentation in schools towards the constitution of a deliberative democracy, International Conference of the Learning Sciences, June 2016
- Discussant, Building on Cultural Capacity for Innovation through International Collaboration: In Memory of Naomi Miyake, International Conference of the Learning Sciences, Singapore, June 2016
- International Expert Panelist, Discourse Analytics, Learning Analytics in Education roundtable-cum symposium, event co-located with the International Conference of the Learning Sciences, Singapore, June 2016.
- Invited Talk, Community Engagement as a Resource for Learning, Learning in Social Contexts Conference, Pittsburgh, PA, May 19-21, 2016.
- **Featured Speaker**, Text Mining for Assessment of Writing and Social Positioning, Association of Test Publishers, Education Division, Session on NLP, text mining, and automated scoring, March 20-23, 2016
- **Opening Keynote Talk**, From Data to Support of Social Interaction for Learning in MOOCs, Digital Learning Week Conference, hosted by the School of Education, Teaching Innovation Unit, University of South Australia, March 2016
- Guest Speaker, Strategies for Successful Career Building in Academia, The AECT Early Career Symposium, November 2015.
- Invited Panel Talk, Teaming in Team Based MOOCs, Digital Learning Research Network Conference on Making Sense of Higher Education: Networks and Change, Stanford University, October 2015.
- Invited Talk, Workshop on Computing Education hosted by Al Akhawayn University, in collaboration with the Moroccan Ministry of Higher Education, Oct 2-3, 2015, talk delivered remotely.
- Invited Panelist, Open edX Universities Symposium, George Washington University, November 11, 2015

- Invited Panelist, Research and Resources Towards Collaborative and Discussion Based Learning in MOOCs, CCC Computer-Aided Personalized Education Workshop, November 12-13, 2015 in Washington, DC
- Invited Speaker and Panel Leader, NSF Funded MARWiSE workshop on Multidisciplinary Advances in Reading and Writing for Science Education, NYC, May 7-8, 2015.
- Invited participant, NSF funded Symposium on Learning Sciences and Online Learning, MIT, May 21-22, 2015.
- Invited Symposium Talk, Discourse Analytics to Support Persistent Participation in MOOCs, Symposium on CSCL and Learning Analytics: Opportunities to Support Social Interaction, Self-Regulation and Socially Shared Regulation, CSCL 2015
- Invited Symposium Talk, A Script Theory of Guidance Perspective on Learning Analytics for CSCL, Symposium on CSCL and Learning Analytics: Opportunities to Support Social Interaction, Self-Regulation and Socially Shared Regulation, CSCL 2015
- Invited Panelist, Online Learning: Shaping the Future of Higher Education On and Off Campus, Summit hosted by MIT, Harvard, UC Berkeley and Stanford
- Discussant, Invited Symposium on research on design and computational aspects of CSCL environments, CSCL 2015
- Panel Talk, MOOC Hype vs. MOOC Research: The Role of Cross-Institutional Collaborations in Advancing Science and Equity, AERA 2015 Annual Meeting
- **Keynote talk**, Discourse Analytics, Southeast Educational Data Symposium (SEEDS), jointly hosted by The Institute for Quantitative Theory and Methods and the Society for Learning Analytics Research, Emory University, February 20, 2015
- **Kenote talk** and Invited Workshop Leader, REASON: International Spring school on Measuring Scientific Reasoning and Argumentation, March 5-7, 2015, University of Munich, http://www.en.mcls.uni-muenchen.de/study_programs/reason/index.html
- Invited talk, September 12, 2014. Department of Education Policy and Practice, SUNY Albany
- Invited talk, September 15, 2014, Reasoning Mind, Houston TX
- Invited talk, October 8, 2014, FutureLearn, UK (delivered remotely)
- Invited talk, October 10, 2014, EdX, Boston MA, EdX Communities of Practice Webinar Series
- Invited poster presentation, Social and Motivational Factors Associated with Attrition in MOOCs, Global Learning Council, September 2014
    - https://www.youtube.com/watch?v=FcjuXeL5_K4&list=PL1HxVG_mcukuKNJbQ_oEVLMNwXbyMeq0r&index=12
    - https://www.youtube.com/watch?v=NENY2LQ6XeA&list=PL1HxVG_mcukuKNJbQ_oEVLMNwXbyMeq0r&index=13
- Invited presentation, Social Factors that Impact Persistence in MOOCs, The 2014 Learning with MOOCs Workshop, Massachusetts Institute of Technology
- Invited Tutorial on Text Mining, Learning Analytics Summer Institute (Co-Organized by the Society for Learning Analytic Research and Harvard University), July 2014, Harvard University

    - Also an invited panel talk at the same conference on Learning Analytics and the Learning Sciences
- Invited panelist, Educational Testing Service sponsored conference on "Innovative Assessment of Collaboration", November 3-4, 2014
- Invited Panelist, ITS & Learning@Scale panel at the Intelligent Tutoring Systems Conference 2014, June 2014
- **Keynote talk**, Cultivating the Seeds of Mentorship: Students as Resources for Creating a Conducive Online Learning Environment, Intelligent Tutoring Systems Conference 2014, June 2014
- Invited Speaker, Human-Technology Partnership in Facilitation of Discursive Instruction, 2014 Cyberlearning Summit, June 2014
- Invited presentation, A network analytic technique for identifying practices of emerging subcommunities in massive online learning communities, ICLS 2014 Workshop on Analytics for Learning and Becoming in Practice, Summer 2014
- Invited Talk, School of Education, University of California at Irvine, March 14, 2014
- Learning through Discussion: Foundations, Findings, and Future, Tutorial at the First Annual ACM Conference on Learning @ Scale, March 2014
- Invited Talk/Visit at Educational Testing Service, invited by Alina von Davier, February 21, 2014
- Invited Talk/Visit at Coursera, invited by Chuong Do (Lead on Data Science team), December 2013
- Invited Participant and presenter at the MOOC Workshop: Defining and Advancing Change (December 2013), with financial support from the Bill and Melinda Gates Foundation
- Invited Panelist, Virtual Villages Panel (platforms that enable people to create virtual villages for to participate meaningfully, but remotely, in the lives of youth), Village Scholar Educational Summit, Convened jointly by the Village Scholar Foundation and the Institute for Urban and Minority Education at Teacher's College, Columbia University, May 11, 2013.
- Invited Tutorial on Discourse Analytics, Learning Analytics Summer Institute (Co-Organized by the Society for Learning Analytic Research and Stanford University), July 2013, Stanford University
- Invited Panel Talk, Panel on Translating collaborative project-based learning to online and blended environments, Workshop on Multidisciplinary Research for Online Education (MunROE, http://www.cra.org/ccc/mroe), sponsored by the Computing Community Consortium, Feb 11-12, 2013, Washington, DC
- Invited Symposium Talk, Automated Approaches to Analyzing Data from Collaborative Learning Settings, Symposium on Trends in Support and Analysis of Collaborative Learning, Jointly organized by the Special Interest Groups on Instructional Design and Learning and Instruction with Computers, at the Biennial Meeting of the European Association for Research on Learning and Instruction, August 2013
- Invited Symposium Talk (co-author, presented by Sherice Clarke), Understanding Student Engagement in Classroom Dialogue, Symposium on Enablers and Barriers of Productive Learning Dialogues: Where social meets cognitive, Biennial Meeting of the European Association for Research on Learning and Instruction, August 2013

- Invited Workshop Talk, Measuring Engagement in Social Processes that Support Shared Cognition, Workshop on Developing Multi-Disciplinary Measurement Approaches for Shared Cognition, University of Central Florida, February 2013
- Invited Instructor, Discourse Analytics: Assessment of Collaborative Learning Discussions, 2013 Academy of the German Institute for International Education Research, Salzschlirf, Germany, June 2013
- Invited Feedback Panel Talk, Invited Workshop: How will Collaborative Problem Solving be assessed at international scale?, Workshop at the Computer Supported Collaborative Learning conference, June 2013
- Invited Panel Talk, Zooming In and Out of Collaborative Process Analysis through Linguistically Informed Machine Learning Models, Invited Plenary Panel: To see the world and a grain of sand: Multiple methods in CSCL research, Computer Supported Collaborative Learning conference, June 2013
- Invited Panel Talk, From Research Instruments to Classroom Assessments: A Call for Tools to Assist Teacher Assessment of Collaborative Learning, Computer Supported Collaborative Learning conference, June 2013
- Invited talk, MIT Media Lab, Summarization of Behavior Trajectories in Online Support Groups, October 19, 2012
    - Gave a similar invited talk at BBN on the same day
- Invited talk, WPI, Supporting Discursive Instruction Online and In the Classroom with Intelligent Conversational Agents, October 22, 2012
- Symposium Invited Talk, Robot Facilitation as Dynamic Support for Collaborative Learning, Symposium at the International Conference of the Learning Sciences, July 2012.
- Workshop Keynote, *Institut Français de l'Education* 3rd International Learning Sciences seminar, Methodology Track, Lyon, France, June 2012
- Workshop Invited Talk, LightSIDE: Open Source Machine Learning for Text Accessible to Non-Experts, National Council on Measurements in Education Conference, Spring 2012, *talk delivered by Elijah Mayfield*
- Workshop Invited Talk, Analysis of Social Positioning in Interaction, Indo-US Workshop on Large Scale Data Analytics and Intelligent Services, IISc, Bangalore, Dec 18-20, 2011
- Invited Talk, Analysis of Social Positioning in Interaction, IBM Delhi, Spoken Web group, December 14, 2011.
- Invited Speaker and Panelist, Dialogue Systems that Support Group Work and Learning, at Young Researchers Round Table for Spoken Dialogue Systems 2011 (Academia Session)
- Invited panelist, Towards Monitoring Classroom Interactions Through Speech Processing, as part of the panel on Research on discursive teaching and learning: What have we learned and where are we heading, at the European Association for Research on Learning and Instruction 2011 conference
- Invited Discussant, Session on Dialogue in the Digital Age, Socializing Intelligence Through Academic Talk and Dialogue Conference, sponsored by the American Education Research Association, September 2011
- Invited paper presentation, What Sociolinguistics and Machine Learning Have to Say to One Another about Interaction Analysis, Socializing Intelligence Through Academic Talk and Dialogue Conference, sponsored by the American Education Research Association, September 2011

- Invited paper presentation, Modeling the Rhetoric of Human-Computer Interaction, HCI International 2011
- Conference Keynote talk, Supporting Group Work with Language Technologies, International Conference on Natural Language Processing, December 2010, IIT Kharagpur.
- Invited data analyst, CKI Communications Analysis Workshop, February 2010
- Invited panelist, Digital Library Usability Panel, 5th International Conference on Universal Digital Library, Pittsburgh, PA, November 8, 2009
- LearnLab India: Towards In Vivo International Comparative Education Research, 2009 Annual Science of Learning Centers Awardees Meeting, Washington DC
- Workshop Invited Talk, Engaging Collaborative Learners with Helping Agents, Learning companions and pedagogical agents workshop, organized by the Oxford Internet Institute, University of Oxford, Oxford, England, May 28, 2009
- Language Technologies for On-Line Learning the Developing World, Microsoft India, Bangalore, April 2009
- Similar talks given the same week at IEEE Society of Bangalore, IIIT in Hyderabad, and C-STEP in Bangalore
- GRASP: The Group learning Assessment Platform, 2009 Collaboration and Knowledge Interoperability Workshop, Orlando, FL, March 2009
- Symposium Invited Talk, Open Problems in Dynamic Collaborative Learning Support, Invited Symposium Talk (symposium organized by Nikol Rummel and Armin Weinberger), International Conference of the Learning Science, Utrecht, the Netherlands, June 2008.
- Supporting Simulation Based Learning, Invited talk, Worth Publishing, Ltd., New York, June 2007
- Workshop Keynote, Language Technologies for Supporting Productive Collaborative Learning Interactions for Science and Engineering Education, Technology-integrated Science and Engineering Education Workshop (TechSEE-II), National Taiwan Normal University, May 2007
- Conference Keynote, Towards Triggering Adaptive Collaboration Support Using Automatic Interaction Analysis, Kaleidoscope CSCL Rendez Vous, January 2007
- Workshop Keynote Talk, Towards Adaptive Collaboration Support, Workshop on Computer Supported Collaboration Scripts, Kaleidoscope CSCL Rendez Vous, January 2007
- Workshop Keynote Talk, TagHelper: Computer Support for Applying Coding Schemes, Workshop on Computer Based Analysis and Visualization of Collaborative Learning Activities, Kaleidoscope CSCL Rendez Vous, January 2007
- Workshop Keynote, Towards Adaptive Support for On-line Learning, Technology-integrated Science and Engineering Education Workshop (TechSEE), National Taiwan Normal University, May 2006
- Workshop Featured Talk, Making Authoring of Conversational Interfaces Accessible, Workshop on Authoring Tools for Advanced Learning Systems with Standards (organized by Arthur Graesser, The Advanced Distributed Learning Workforce Co-Lab at the University of Memphis), November 2005

- Invited Symposium Talk, Adapting to and from student goal orientation in guided exploratory learning, the Biennial Meeting of the European Association of Research on Learning and Instruction, Cyprus, August 2005

SEMINARS & COLLOQUIA

- Colloquium speaker, CS/ISP colloquium, University of Pittsburgh, February 2025
- Colloquium talk, University of Rochester, Department of Computer Science, November 2024
- Colloquium talk, Georgetown University, Linguistics Department, April 2023
- Seminar talk, University of Haifa, Educational Technologies Graduate Program, May 2021
- Colloquium Talk, New York University, Steinhardt School of Education, November 2020
- Colloquium Talk, University of Oulou, Finland, February 2020
- Colloquium Talk, BoiInformatics Department, University of Pittsburgh, November 1, 2019
- Online AI seminar for Alelo, From AI-enabled CSCL in the classroom towards team based learning in the workplace, February 2019, https://www.alelo.com/2019/02/from-ai-enabled-cscl-in-the-classroom-towards-team-based-learning-in-the-workplace/
- Research seminar at IBM Research in Yorktown Heights, February 2019, https://ibm.webex.com/ibm/lsr.php?RCID=092c2b48e1bb469caeb5b36b6ac21e11, password dUJ4DW3T
- Seminar series as part of a University-wide learning initiative at the University of Notre Dame, Spring 2019
- Digital Humanities Seminar Series, co-presented with James Wynn and Hannah Ringler, Novemeber 2018
- Colloquium Talk, Speech and Language group at Johns Hopkins University, November 9, 2018
- Colloquium Talk, October 19, 2018, Penn State, School of Information Sciences and Technology
- Colloquium Talk, Psychology Department, University of Muenster, Muenster, Germany, June 2018
- Colloquium Talk, Supporting Learning in MOOCs with Language Technologies, UIUC Department of Computer Science, November 18, 2016
- Colloquium Talk, Linguistic Agency: Implications for Computational Models of Language in Social Contexts, LTI Colloquium, March 2016
- Invited Talk, Introduction to Machine Learning, Chemical Engineering Department, Enterprise Wide Optimization group, Carnegie Mellon University, March 4, 2016
- Invited Talk, Brown Bag Lunchtime Series, Rutgers University Graduate School of Education, October 28, 2015
- Invited Talk, University of Edinburgh School of Education and School of Informatics, August 2015
- Invited talk, The Open University of the UK, July 2015

- Dynamic Support for Computer Mediated Intercultural Collaboration, CMU Modern Languages Department Program in Second Language Acquisition Graduate Seminar, March 31, 2014 (aaweber@gmail.com)
- Cultivating the Seeds of Mentorship: Students as resources for creating a conducive online learning environment, colloquium talk, The Learning Innovation and Networked Knowledge Lab Fall Colloquium, University of Texas at Arlington, October 2014.
    - https://echo360.uta.edu/ess/echo/presentation/5daca2f8-7b8f-49c2-8c47-a818760caa4a?ec=true
- Linguistically Informed Automated Analysis of Collaborative Learning Processes, **Distinguished Lecture** in the Software and Information Systems Department at UNC Charlotte, April 2014
- Invited Talk/Visit, Lytics Lab, School of Education, Stanford University, March 13, 2014
- Supporting Discursive Instruction Online and in the Classroom with Intelligent Conversational Agents, Learning Sciences Colloquium, Arizona State University, October 2013
- SouFLé: A Three Dimensional Framework for Analysis of Social Positioning in Dyadic and Group Discussions, Rhetoric Colloquium, Department of English, Carnegie Mellon University, February, 2013
- Supporting Discursive Instruction Online and in the Classroom with Intelligent Conversational Agents, HCII Seminar, Carnegie Mellon University, November, 2012
- Automated Analysis of Social Positioning in Conversation, CUNY, April, 2012.
- What Sociolinguistics and Machine Learning Have to Say to One Another, MIT Media Lab Applied Machine Learning Series (delivered remotely), August 2011
- Supporting Academically Productive Talk with Computer Agents, Drexel Information School Seminar, Drexel University, February 2011
- Analysis of Perspectives in Interactive Settings, Tepper School of Business IS Seminar, November 19, 2010
- Displayed Bias as a Reflection of Both Speaker and Intended Hearer in Conversational Settings, LTI Colloquium, September 2010.
- Technologies for Automatic Analysis of On-Line Learning Discussions, Institute for Teaching & Learning – Nexus Research and Policy Center, May 2010
- Modeling Style of Conversational Interactions Using Text Mining Techniques, Seminar Talk, Worcester Polytechnic, January 2010
- Analysis of Transactivity in Group Discussions in On-Line and Face-to-Face Settings, Seminar Talk, i-school at Drexel University, January, 2010
- Engaging Collaborative Learners with Conversational Agents using Social Strategies, Seminar Talk, School of Informatics, University of California at Irvine, June 2010
- Analysis of Transactivity in Group Discussions in On-Line and Face-to-Face Settings, Seminar Talk, School of Education, University of California at Los Angeles, June 2010
- Engaging Collaborative Learners with Conversational Agents using Social Strategies, Seminar Talk, School of Education, University of California at Los Angeles, June 2010

- Language Technologies for Supporting Productive Collaborative Learning Interactions for Science and Engineering Education, Turing Seminar Talk, University of Washington, April 2007
- Evaluating the Instructional Value of Errors in Through Peer Tutoring Interactions, DeKalb University, September 2005
- Guided Exploratory Learning in a Simulation Environment for Thermodynamics, University of Muenster, July 2005
- Facilitating Reliable Content Analysis of Corpus Data with Automatic and Semi-Automatic Text Classification Technology, EPFL Switzerland, July 2005
- Cycletalk: Toward a Tutorial Dialogue Agent that Supports Negotiation Dialogues for Learning and Reflection, Karl-Franzens Universitaet in Graz, Austria, April 2004
- Overcoming the Knowledge Engineering Bottleneck for Understanding Student Language Input, University of Edinburgh, November 2003
- Tutorial Dialogue Systems: Where are we, and where are we going? DFKI, Saarbruecken Germany, November 2003

OTHER

- **Invited Participant:** Amazon Workshop on Agentic Software Development — Methodology, Technology, and Curriculum, September 2026
- **Press Coverage:** Amazon Nova AI Challenge https://www.amazon.science/nova-ai-challenge/finalist-teams-advance-in-the-amazon-nova-ai-challenge-trusted-ai-track
- **Press Coverage:** Generative AI Certificate https://www.cs.cmu.edu/news/2024/generative-AI-certificate
- **Invited Participant,** OECD's *AI and the Future of Skills* (AIFS) project (https://www.oecd.org/education/ceri/future-of-skills.htm)
- **Invited participant,** New Frontiers National Summit, Association of Science and Technology Centers, October 2020 (https://www.astc.org/newfrontiers/)
- **Press Coverage:** AAAS Leshner Fellows https://www.aaas.org/news/aaas-selects-28-mass-media-fellows-bringing-scientists-newsrooms-around-country
- **Press Coverage:** Pittsburgh Post Gazette: Can technology turn down the volume of online hate? Researchers at CMU are working to find an answer. https://www.post-gazette.com/local/city/2019/10/21/tree-of-life-synagogue-pittsburgh-carnegie-mellon-online-hate-speech-technology-gab-8chan/stories/201909260105
- **Press Coverage:** Recode, March 2019, Inside Twitter's ambitious plan to change the way we tweet
    - *https://www.recode.net/2019/3/8/18245536/exclusive-twitter-healthy-conversations-dunking-research-product-incentives*
- Invited to serve on the Japan Prize Nominating Committee for the 2020 prize
- **Press Coverage:** E-learning Inside: WGU and Carnegie Mellon University win grant to build AI Powered Professional Development Tool https://news.elearninginside.com/wgu-and-carnegie-mellon-win-grant-to-build-ai-powered-professional-development-tool/
- **Press Coverage:** Inside Higher Ed: Pushing the Boundaries of Learning With AI (September, 2018) https://www.insidehighered.com/digital-learning/article/2018/09/26/academics-push-expand-use-ai-higher-ed-teaching-and-learning

- **Press Coverage:** Chronical of Higher Ed: How Artificial Intelligence is Changing Teaching (August, 2018) https://www.chronicle.com/article/How-Artificial-Intelligence-Is/244231/?key=0bBzifsyPLcc_LIWrv4sjgX2l0vUwROigDNBQQ2X3vYi6TcAsbckA59o_UF-32UPeFlFMkJhbVNtZFlVaUhnYWI3dmtNZ0k3aVZ1MDJKY1FQSWFLU3dUVWNEbw#.W3Qd2Fjh_m0.twitter
- **Press Coverage:** interview with Iridescent (December 2017)
  - http://iridescentlearning.org/blog-2/
- **Press Coverage:** interview with me published in the Chinese Modern Distance Education Research Journal, a CSSCI indexed journal (Interview from Summer 2017)
  - http://www.xdyjyj.cn/2010/zaiyao.asp?aid=4306&articleid=4306
- **Press Coverage:** article Inside Higher Ed (Fall 2017)
  - https://www.insidehighered.com/news/2017/11/14/professors-have-mixed-reactions-blackboard-plan-offer-tool-grading-online
- **Press Coverage:** article in Ed Surge
  - https://www.edsurge.com/news/2016-09-28-online-classes-get-a-missing-piece-teamwork
- Invited co-editor of the Handbook of Computer-Supported Collaborative Learning
- Invited Center Associate: Research Centre in Digital Education in the Moray House School of Education at the University of Edinburgh
  - http://www.de.ed.ac.uk/
- **Press Coverage:** Web interview for the blog of Open edX Universities Symposium, September 4, 2015, and other coverage of the event
  - http://openedxuniversities.org/2015/09/04/qa-with-prof-carolyn-rose/
  - https://www.class-central.com/report/conversation-impacts-learning/
  - http://iblstudios.com/brightest-minds-in-higher-education-participated-in-the-first-open-edx-universities-symposium/
  - https://www.youtube.com/watch?v=PxfpjLOC3pM&feature=youtu.be&t=1h32m20s
- External Expert for the UK Open University Digital Think Tank (Fall 2015)
- Invited participant, NSF funded CCC Computer-Aided Personalized Education Workshop, November 12-13, 2015 in Washington, DC
- **Press Coverage.** Announcement of new Gates grant, joint with University of Texas at Arlington.
  - https://www.uta.edu/news/releases/2014/11/LINKLab-dLRN.php
  - http://hcii.cmu.edu/news/2014/rose-leads-cmu-efforts-16-million-digital-learning-research-network
- **Press Coverage.** Announcement about NSF DIBBs: Mining Educational Data to Improve Learning, September 2014.
  - http://www.hpcwire.com/off-the-wire/carnegie-mellon-leads-new-nsf-project-improve-learning/
- **Press Coverage.** Announcement about Google Grant on MOOC research + discussion of my current directions in MOOC research, August 2014, Pittsburgh's NPR news station.
  - http://wesa.fm/post/cmu-google-team-improve-online-education
- Invited participant, Digital Learning Data as a Public Good: Forging First Principles and Protocols for Scientific Collaboration, Pacific Grove, CA, June

1-4, 2014, organized through the Office of the Vice Provost for Online Learning at Stanford University.
    - Working group to construct the equivalent of the Belmont Report for online learning data.
- Invited participant in NSF funded workshop on Big Data in Education, Arlington, VA, March 2014
- **Interactive TV appearance:** Interviews on Gates Foundation funded interactive TV series produced by In the Telling: "Massive and Open: What are we learning?", part of a larger series aired on Internet TV called e-literate TV (filmed in December 2013).
- **Press Coverage**: Profile Piece published in The New Learning Times, November 2013.
- **Press Coverage:** Announcement about joint grant with Penn State, October 2013:
    - http://news.psu.edu/story/292862/2013/10/25/academics/ist-researcher-explores-student-online-collaboration
- Invited NLP Expert, National Crisis Helpline Summit, MIT Media Lab, October 18, 2012
- Invited research partner in an international bid for the Open Research Area Plus for the Social Sciences program, jointly funded through ANR-DFG-ESRC-NWO and NSF. Title: Dialogic Education and Emotional Engagement (D3E), spearheaded by Rupert Higham and J. E. van-de-Pol at the University of Cambridge, UK.
- **Press Coverage** in The Hindu, August 25, 2011: The passion to find out?, talks about the Internship Program in Technology Supported Education, http://www.thehindu.com/todays-paper/tp-features/tp-nxg/article2394460.ece
- **Press Coverage** in Edu Tech, April 2012: A Winter of Content, talks about the Internship Program in Technology Supported Education, http://issuu.com/eduindia/docs/edu_issue-03_vol-04_april_2012
- **Press Coverage** on NPR, Education Week, and other sources about the ASAP automatic essay grading challenge, some of which specifically discuss LightSIDE's participation, April 2012:
    - http://www.edweek.org/ew/articles/2012/04/25/29essays.h31.html?tkn=MXPFNpo8fLNL7tUZgZJo9P23%2F4bGdVG%2FEJ1%2F&intc=es
    - http://stateimpact.npr.org/ohio/2012/04/12/computers-can-score-student-essays-as-well-as-humans-study-finds/
    - http://stateimpact.npr.org/ohio/2012/06/08/the-pros-and-cons-of-using-computers-to-teach-students-how-to-write/
    - http://marginalrevolution.com/marginalrevolution/2012/04/ahem-4.html
http://www.insidehighered.com/news/2012/04/13/large-study-shows-little-difference-between-human-and-robot-essay-graders
    - http://www.ohio.com/news/break-news/ua-dean-instrumental-in-automated-grading-study-1.294837
    - http://www.uakron.edu/im/online-newsroom/news_details.dot?newsId=40920394-9e62-415d-b038-15fe2e72a677&pageTitle=Top%20Story%20Headline&crumbTitle=Man%20and%20%20machine:%20Better%20writers,%20better%20grades
    - http://blogs.edweek.org/edweek/edtechresearcher/2012/04/grading_automated_essay_scoring_programs-_part_iii_classrooms.html
    - http://www.cleveland.com/metro/index.ssf/2012/04/computers_as_good_as_humans_in.html

    - http://www.nytimes.com/2012/04/23/education/robo-readers-used-to-grade-test-essays.html
    - http://www.usatoday.com/news/education/story/2012-04-23/essay-scoring-computer-software/54493662/1
    - http://www.huffingtonpost.com/tom-vander-ark/better-tests-more-writing_b_1450604.html
- **Press Coverage** in Science: In an Editor's Choice column, LightSIDE was singled out as having value for educators, June 2012
- **Press Coverage** on Education Week, feature story about my work on computer supported collaborative learning as part of an article about the role of technology in education, August 2012: http://www.edweek.org/ew/articles/2012/08/08/37replace_ep.h31.html
- **Press Coverage** in a News Alert on EdNet (http://www.ednetinsight.com/news-alerts/hellerresults.html) in an article on Big Data in K-12 education, Nov 2012
- **Press Coverage** on the 2012 Winter School, in The Heart and Soul of Andhra Pradesh, the largest daily newspaper in the state of Andhra Pradesh, web access at www.eenadu.com, December 11 edition, 2012
- Faculty Affiliate of the University of Pittsburgh's Sara Fine Institute (an institute devoted to the study of inter-personal behavior and technology)
- Invited expert reviewer for the Ontario Research Fund (Canada), Ontario Ministry of Research and Innovation

IV. EXTERNAL PROFESSIONAL ACTIVITIES

ADVISORY BOARDS

- SIGDAT Advisory Board, 2026
- External Advisor for Useflow (consulting[1])
- External Advisor for Realyze Intelligence (consulting)
- Advisory board,Center for "Hybrid Intelligence: Human-AI Co-evolution and Learning in Multi-realities (HI)", funded by the Finnish Academy
- Advisory board, Center for Mind and Cognition, Ruhr-University Bochum.
- SIGDIAL Advisory Board member, 2 year term, invited in Summer 2021
- External Advisory Board for our NSF DR-K12 grant related Mapping, Clarifying, and Communicating Key Ideas about Collaborative Learning to STEM Audiences (Jeremy Roschell, PI, Digital Promise) May 2021
- Western Governors University Research Advisory Board (2020-)
- External Advisory Board for our NSF IUSE grant related to training teaching assistants for CS courses (Amy Cook, PI, University of Memphis) March 2021
- Western Governors University Research Advisory Board (2020-)
- Expert Advisor, Learning Sciences Lab in Peking University, Beijing, China, Prof. Junjie Shang
- Advisory Board Member, NSF, Big Data for Small Groups: Learning Analytics and Adaptive Support in Game-based Collaborative Learning (Grant started in 2016, PIs James Lester and Cindy Hmelo-Silver)
- Review Committee Member, Center for Research on Learning and Technology (CRLT)
- Advisory Board Member, Computer-Supported Math Discourse Among Teachers and Students Center, Drexel University, NSF DRK-12 Program (grant started Summer 2011)
- Advisory Board member, NSF/Cyberlearning funded SimBio/MIT project related to automated assessment (2013-)
- Advisory Board Member, NSF/HCC, Modeling and Supporting Creativity During STEM learning activities (2014-)
- Advisory Board Member, Designing for change in teachers' practices – towards implementing explorative mathematics instruction, Spenser Foundation (2014-) LightSIDE Labs Inaugural Research Advisory Board (2014-)
- Steering Committee Member, Educational Discourse, NSF BCC Capacity Building grant (2015)
- Design Advisory Panel member of Pearson's Dialogue for Language Learners (DLL) project, Fall 2015
- Advisory Board Member, NSF funded Project Learning with Automated, Networked Supports (PLANS), Spring 2016

[1] 0.5% equity in the company (which is expected to launch with a valuation of $3 million, but the plan is to reach a valuation of $200 million within 4 years), with the potential to increase to 1% if I'm interested in greater involvement (dedicating more time)

CONFERENCE AND WORKSHOP COMMITTEES

- **Area Chair:** ACM SIGCH 2026, ARR May 2026
- **Program Co-Chair:** EMNLP 2025
- **Program Committee:** CRAC 2025
- **Program Co-Chair:** CSCL 2026
- **Program Committee:** Program Committee for The Seventh Workshop on Computational Models of Reference, Anaphora and Coreference in 2024
- **Program committee:** WiNLP Workshop, CoNLL 2023, CODI 2023
- **Shared Task Co-Organizer:** CODI-CRAC Shared Task on Anaphora, Bridging, and Discourse Deixis in Dialogue, COLING 2022
- **Shared Task Co-Organizer:** CODI-CRAC Shared taslk on Anaphora Resolution in Dialogues, EMNLP 2021
- Workshop Organizer: Technology to advance learning: A Public Engagemenr Project (https://alliancelss.com/#publicengagement)
- Program Committee for SIGCHI 2021, EACL 2021, ISLS Annual Meeting 2021
- Program Committee for Learning Analytics and Knowledge 2020, ACM-SIGCHI 2020, EMNLP 2020, EACL 2020
- Associate Chair for ACM-SIGCHI 2019, Area on Learning and Families
- Senior Program Committee for CSCL 2019
- **Co-organizer** of Dagstuhl Seminar "BOTse: Bots in Software Engineering" to be held from Sunday, November 17 to Friday, November 22, 2019 at Schloss Dagstuhl, Wadern, Germany
- Representative of the International Society of the Learning Sciences on the Inter-Associations Committee of the Association for Smart Learning and Regional Development (ASLERD), SLERD 2018
- **Program Co-Chair** AI in Education 2018, London, Summer 2018
- **Co-Chair** International Conference of the Learning Sciences Doctoral Consortium 2018
- **Program Co-Chair** for Learning with MOOCs IV, Fall 2017
- Senior Program Committee for CSCL 2017, EDM 2017
- Program Committee for LAK 2017, ICALT 2017
- Program Committee for Learning With MOOCs III, Fall 2016
- Program Committee for SIGDIAL 2016
- Program Committee Member for ACM Learning@Scale 2016
- Program Committee for Educational Data Mining 2016
- Program Committee Member for ACL 2016 in the area of Dialogue and Interactive Systems
- Workshop Co-chair for the International Conference of the Learning Sciences (ICLS 2016)
- **Program Co-Chair** of Learning Analytics and Knowledge 2016
- Co-Organizer of Invited Session representing the International Society of the Learning Sciences at the 2015 Biennial Meeting of the European Association for Research on Learning and Instruction
- **Program Co-Chair (Discourse)** SIGDIAL 2015
- Program Committee for Learning@Scale 2015

- **Program Co-Chair** for the EMNLP 2014 Workshop on Modeling Large Scale Social Interaction in Massively Open Online Courses
- **Program Co-Chair** for 5th ACM International Conference on Collaboration Across Boundaries (CABS): Culture, Distance and Technology (Language Technologies Track) 2014
- Senior Program Committee for ICLS 2014
- Program Committee for WWW 2014, EACL 2014 (Session Chair), LAK 2014, ACM-SIGCHI 2014, and ACM Learning at Scale Conference (L@S) 2014, EDM 2014
- Senior Program Committee for AIED 2013
- Advisory Committee for 2nd Workshop on Intelligent Support for Learning in Groups (AIED 2013)
- **Area co-chair** for Discourse, Dialogue, and Pragmatics at EMNLP 2013
- Program committee for LAK 2013, CSCL 2013, EDM 2013, ACL 2013
- Associate Chair for Intelligent User Interfaces 2012
- Program Committee for HLT-NAACL 2012, ITS 2012, ICLS 2012, NAACL Student Research Workshop and Doctoral Consortium 2012, CHI 2012, Ce-Learning 2012, Sigdial 2012, EDM 2012
- Advisory Committee for the Young Researchers Round Table for Spoken Dialogue Systems (YRRSDS'11)
- Program committee for AIED2011, EDM 2011, CSCL 2011, WWW 2011 Doctoral Consortium
- Reviewer Board member for the STELLAR Computer Supported Collaborative Learning Community Alpine Rendez Vous, 2011.
- Review panel member for AERA 2011, Division C Section 11 (Learning & Instruction: Technology Research)
- Demo chair for HLT-NAACL 2010
- Panelist for HLT-NAACL 2010 Student Research Workshop
- Co-Chair for ITS 2010 Young Researcher's Track/ Doctoral Consortium
- Senior program committee for special issue of IEEE Transactions on Learning Technologies related to Intelligent and Innovative Support for CSCL 2010
- Treasurer for International Conference on Intercultural Collaboration (ICIC) 2010
- Program committee for EDM 2010, FLAIRS 2010, ITS 2010 (Winner of ITS Outstanding Reviewer Award, 2010)
- Panel reviewer for the American Association for Educational Research Division C Section 7 (Technology Research), 2010
- Faculty Advisor for the HLT-NAACL Student Research Workshop (doctoral consortium) 2009, in collaboration with Anoop Sarkar at Simon Fraser University
- Review Committee for ACL 2009, IUI 2009, CHI 2009, HRI 2009, IWIC 2009, CSCL 2009, AIED 2009, FLAIRS 2009
- Program Committee, ITS 2008, FLAIRS 2008, ICCE 2008, LREC 2008
- Program Committee, Educational Data Mining Conference, 2008
- Treasurer, International Workshop on Intercultural Collaboration (IWIC) 2008
- Senior Program Committee Member, AI in Education (AIED) 2007
    - Tutorial Co-Chair, overseeing tutorials with Roger Azevedo, AIED 2007
    - Mentor for AIED 2007 Young Researcher's Track

- Review Committee for Computer Supported Collaborative Learning (CSCL) 2007
- Review Committee for AAAI 2007
- Review Committee for Human Robot Interaction 2006
- Program Committee for FLAIRS 2006
- Program Committee for Intelligent Tutoring Systems (ITS) 2006
- Program Committee for AAAI 2006
- Scientific Committee for LREC 2006
- Program Committee for AIED 2005
- Program Committee for the Association for Computational Linguistics (ACL) 2005 Workshop on Educational Applications of NLP
- Program Committee for the ITS 2004 workshop on Tutorial Dialogue
- Program Committee for ScaNaLU: Workshop on Scalable Natural Language Understanding technology, 2004
- Co-Chair for AI in Education 2003 workshop on Tutorial Dialogue Systems: With A View Towards the Classroom
- Organizing Committee for HLT-NAACL 2003 workshop on Building Educational Applications Using Natural Language Processing
- Co-Chair for ITS Workshop on Empirical Methods for Tutorial Dialogue Systems, 2002
- Organizing Committee member for AIED 2001 workshop on Tutorial Dialogue Systems
- Co-Chair for AAAI Fall Symposium on Building Tutorial Dialogue Systems, 2000
- Thematic Session Co-Chair, 37th Annual Meeting of the Association for Computational Linguistics, 1999.
- Review Committee member, European Chapter of the Association for Computational Linguistics, 1999.
- Review Committee member, Student Session of the 35th Annual Meeting of the Association for Computational Linguistics, 1997.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- The International Alliance for Learning in a Digital Era
  - **Founding Chair 2017-2018**
- The International Society of the Learning Sciences
  - **Inaugural Fellow (2017-Present)**
  - **President Elect (2014), President (2015), Past President (2016)**
  - **Elected Member of ISLS Board of Directors,** 2013-2019
  - **Elected Co-Chair of the CSCL Committee**, which is the governing board of directors for the CSCL community, 2013-2016 and 2025-2028
  - **Secretary-Treasurer** (and *ex officio* member of the Board of Directors) 2008-2014
  - **Secretary-Treasurer of the CSCL community** (Summer of 2010 – Summer of 2014)
  - Awarded a “medal of honor for service” at the 2010 ISLS Board Retreat

    - Served as committee member of the Web Publicity committee 2007-2010 (formally served as co-chair 2008-2009)
- Association for Computing Machinery (ACM)
    - ACM Learning @ Scale Steering Committee member 2014-2017
- The IEEE (Member since 2016, Senior Member since April 2018)
- The European Association for Research on Learning and Instruction (EARLI)
- The Association for Computational Linguistics (52feaeb82597c)
- The International Artificial Intelligence in Education Society
    - **Elected Executive Board Member**, Fall 2013-Fall 2018
- Charter member of the International Educational Data Mining Society

EDITORIAL BOARD MEMBERSHIPS

- Computational Linguistics Journal, member of Computational Linguistics (CL) reviewer team from August 1, 2024 – June 30, 2026
- Editorial Board Member (Associate Editor 2011-2016, Executive Editor 2016-2019, Co-Editor-in-Chief January 2020- January 2024, Executive Editor January 2024-) of the International Journal of Computer Supported Collaborative Learning, 2010-
- Founding Editorial Board Member for the Journal of Dialogue Systems 2006-
    - Became the Journal of Discourse and Dialogue Research in 2008
    - Became the Journal of Dialogue and Discourse in 2009
- Editorial Board Member of the Journal of Educational Data Mining, 2008-
- Editorial Board (Associate Editor) of the Journal of Human-Computer Studies, 2010-2012.
- Editorial Board Member (Associate Editor) IEEE Transactions on Learning Technologies (invited as an NLP expert), 2013-2020
    - Also Guest Editor of IEEE TLT Special Issue on Learning Analytics
- Editorial Board Member of the International Journal of Artificial Intelligence in Education, 2013-

OTHER

- Guest co-editor of a special issue of the Internastional Journal of Computer-Supported Collaborative Learning on Artificial Intelligence in CSCL: Discerning Promising Opportunities while Avoiding Pitfalls in Light of Past Accomplishments and Recent Advances
- Guest co-editor of a special issue of the Journal of Learning Analytics entitled: Convergence of Communities for Grounding, Implementation and Validation
- Co-Organizer of the Collaborative Learning and Web 2.0 workshop at the International Conference of the Learning Sciences, June 2016, Singapore
- Co-Organizer of the Mid-Career Workshop at Computer Supported Collaborative Learning 2015 (CSCL ’15)
- Co-Organizer of Early Career Workshop at Computer Supported Collaborative Learning 2013 (CSCL ’13)
- Co-Organizer of CSCL 2011 Tutorial on Leveraging tool support for the analysis of computer-mediated activities.

- (Lead) Co-organizer of the STELLAR Computer Supported Collaborative Learning Community Alpine Rendez-Vous workshop on Leveraging Researcher Multivocality for Insights on Collaborative Learning
- Co-organized CSCL 2011 tutorial "Leveraging Tool Support for Computer Mediated Activities" with Gregory Dyke.
- Hosted Dr. Vasudeva Varma for his short sabbatical at the Language Technologies Institute in Spring 2010
- Co-Organizer of ITS 2010 Workshop on Opportunities for intelligent and adaptive behavior in collaborative learning systems
- Co-Organizer for ICLS Workshop on Productive Multivocality in the Analysis of Collaborative Learning, June 2010
- Co-organizer for Kaleidoscope CSCL Rendez-Vous Workshop on Pivotal Moments in Collaboration, December 2009
- Co-organizer for CSCL 2009 Workshop: Common Objects for Productive Multivocality in Analysis
- Co-Organizer for the ICLS 2008 Workshop on Scaling Up Analysis of Interaction in Networked Learning Environments
- Co-Organizer for ICLS 2006 Workshop on Dynamic Support for CSCL: Conceptual Approaches and Technologies for Flexible Support of Collaborative Knowledge Construction
- Invited Expert External Reviewer for internal Call for Learning Center Project Proposals at Swiss Federal Institute of Technology in Lausanne (EPFL), Summer 2005
- Review Committee for the Journal of Natural Language Engineering Special Issue on Educational Applications
- Panel Organizer for ITS 2004 panel "Towards Encouraging a Learning Orientation Above a Performance Orientation"
- Has reviewed for the HCI Journal, the Information Retrieval Journal, the Journal of Natural Language Engineering, the Computational Linguistics journal, the Journal of Artificial Intelligence in Medicine, the Journal of AI Research, User Modeling and User-Adapted Interaction: The Journal of Personalization Research, the Discourse Processes Journal, and the Iranian Journal of Electrical and Computer Engineering

I. CONTRACT AND GRANT SUPPORT

CURRENT

Title: Collaborative Research: Integrating Language-Based AI Across the High School Curriculum to Create Pathways to AI-Rich Careers
PI: Carolyn Rosé
Agency: NSF DRL
Grant Number: 2241670
Duration: 1 year
Amount: 60K
Support: .5 months per year

Title: Apple Tea: AI Augmented Pathways for Experiential Learning of Team Process Skills in Community College Cyber Security
PI: Carolyn Rosé
Agency: NSF ATE
Grant Number:
Duration: 3 years
Amount: 750K
Support: .5 months per year

Title: Deepening Reflection on Contrasting Cases with AI Support
PI: Carolyn Rosé (LearnVia grant is through the Learning Sciences Center led by Kenneth Koedinger and Richard Scheines)
Agency: Internal Seed funding from LearnVia gift
Grant Number: recommended for funding
Duration: 1 years
Amount: 150K
Support: .5 months per year

Title: Title:Intelligent Agents in the Classroom: Supporting Machine Learning Understanding Through Collaborative Design
PI: Carolyn Rosé
Agency: NSF IUSE
Grant Number:
Duration: 5 years
Amount: 1M (CMU collaborative proprosal with CMU as lead, 2M total budget)
Support: .5 months per year

Title: Red Team for Amazon Trusted AI Challenge
PI: Carolyn Rosé and Lei Li, faculty project leads
Agency: Amazon
Grant Number: gift
Duration: 1 year starting Spring 2026

Amount: 250K
Support:

Title: LLMs as a Scaffold Instead of a Crutch (part 2)
PI: Carolyn Rosé
Agency: Oracle
Grant Number: gift
Duration: 1 year starting Fall 2025
Amount: 85K
Support:

Title: Blue Team for Amazon Trusted AI Challenge
PI: Carolyn Rosé, faculty project lead
Agency: Amazon
Grant Number: gift
Duration: 1 year starting Fall 2024
Amount: 250K
Support:

Title: LLMs as a Scaffold Instead of a Crutch
PI: Carolyn Rosé
Agency: Oracle
Grant Number: gift
Duration: 1 year starting Fall 2024
Amount: 85K
Support:

Title: Planning: CRISES: Reskilling and Upskilling for an Age of Technological Disruption
PI: Lee Brandstetter
Agency: NSF
Grant Number:
Duration: 1 year starting Fall 2024
Amount: 150K planning grant
Support: 2 weeks per year

Title: Neural Net Maker: Making Sense of Distributed Representations and Expressing Cultures through Algorithms in the Age of AI
PI: Jie Chao (Concord Consortium, lead institution)
Agency: NSF DRK12
Grant Number:
Duration:
Amount: 375K (50K for CMU)
Support: 100% of this grant is for student support

Title: Data Science for Education (DS4EDU)
PI: John Stamper
Agency: Institute for Educational Science
Grant Number: R305B230008
Duration: 3 years (09/01/2023 – 08/31/2026)
Amount: 800K
Support:

Title: DARPA-PA-23-04-03-EMHAT-FP-015, AgInteracT: LLM-based Human-AI Teaming Simulation Environment
PI: Maarten Sap
Agency: DARPA EMHAT
Grant Number: (not quite official yet)
Duration: 18 months
Amount: 1M
Support:

Title: Collaborative: Integrating Language-Based AI Across the Curriculum to Create Diverse Pathways to AI-Rich Careers
PI: Carolyn Rosé (Jie Chao is PI of Concord Consortium, lead institution)
Agency: NSF ITEST
Grant Number: 2241669
Duration: 3/1/2023-2/28/2026
Amount: 300K (CMU collaborative proprosal, 1.5M total budget)
Support: 100% of this grant is for student support

Title: FW-HTF-R: A New Bridge to the Digital Economy: Integrated AI-Augmented Learning and Collaboration
PI: Lee Brandstetter
Agency: NSF DSES
Grant Number: 2222762
Duration: 10/20/2022-9/31/2025
Amount: 1.8M
Support:

Title: Recrafting Computer Science: Fiber Crafting as Computational Thinking
PI: Carolyn Rosé (PI of CMU subcontract, UCI as lead)
Agency: NSF
Grant Number: DUE 2100401
Duration: 7/20/2021-8/31/2024
Amount: 1.5M
Support:

Title: Narrative Modeling with StoryQ: Integrating Mathematics, Language Arts, and Computing to Create Pathways to Artificial Intelligence Careers
PI: Jie Chao at Concord Consortium (Rosé Co-PI)

Agency: NSF
Grant Number: DRL **1949110**
Duration: 6/1/2020-5/31/2023
Amount: $1,496,892 (+ supplement awarded in Summer 2022)
Support:

Title: SOLID: Injecting Learning into Work: Enhancing Career Advancement through Transformation of Professional Development in Technical Career Paths
PI: Carolyn Rosé
Agency: NSF
Grant Number: IIS **1917955**
Duration: 6/30/2019-5/31/2023
Amount: 750K
Support:

Title: Collaborative Research: Human-Technology Partnership Supporting Career Path Exploration and Navigation
PI: Carolyn Rosé
Agency: NSF
Grant Number: IIS 1822831
Duration: 9/1/2018-8/31/2021
Amount: 550K for CMU (lead) + 200K for WGU in a collaborative proposal
Support:

PAST

Title: Workshop: Human-Technology Interface Series - Pathways to Products for Lifelong Learning
PI: Carolyn Rosé (PI of CMU subcontract, UCI as lead)
Agency: NSF
Grant Number: SBIR 2140283
Duration: 8/12/2021-8/31/2022
Amount: 100K
Support:

Title: Simulating Challenging Social Situations with Intelligent Agents to Support Novice Computer Science Teachers in Self- and Social- Regulation Strategies
PI: Justin Reich at MIT (Rosé Co-PI)
Agency: NSF
Grant Number: IIS **1917668**
Duration: 01/10/2019-6/30/2021
Amount: 750K
Support:

Title: Automating Analysis of Doctor-Patient Interactions (informal title)

PI: Carolyn Rosé (along with Jodi Forlizzi and John Zimmerman)
Agency: UPMC (Center for Machine Learning and Health)
Grant Number:
Duration: 1/1/2019-12/31/2019
Amount: 100K
Support:

Title: Personalizing Analysis of Customer Satisfaction from Social Media
PI: Carolyn Rosé
Agency: Dow Chemical
Grant Number:
Duration: 9/1/2018-8/31/2021
Amount: 300K (support for a student for 3 years)
Support:

Title: CORA: Cardiac Outcomes Risk Assessment
PI: Carolyn Rosé (in collaboration with James Antaki at Cornell)
Agency: NIH
Grant Number: 5R01HL122639-03
Duration: 1/1/2018 – 12/31/18
Amount: $189,437
Support:

Title: EAGER: Synthesizing Notes from Electronic Health Records to Make Them Actionable for Heart Failure Patients
PI: Jodi Forlizzi
Agency: NSF
Grant Number: 1723454
Duration: 7/15/2017 – 5/31/2019
Amount: 300K
Support: .5 month

Title: Google Faculty Grant: Collaborative Physics: Working Towards a Google Study Buddy Network
PI: Carolyn Rosé
Agency: NSF
Grant Number:
Duration: 2/1/2018-1/31/2019
Amount: 85K
Support: only student support

Title: STEM+C: Study of a Cyber-enabled Social Computing Framework for Improving Practice in Online Computing Communities
PI: Carolyn P Rosé
Agency: National Science Foundation
Grant Number: STEM+C (submitted to BigData) IIS 1546393
Duration: 01/01/16 – 12/31/19

Amount: 1.6M (CMU portion, UT Arlington got an additional 400K)
Support:

Title: Automated Assessment of Student Writing
PI: Carolyn Rosé
Agency: Schmidt Foundation
Grant Number:
Duration: 01/01/2018 – 1/1/2020
Amount: 200K
Support: only student/postdoc support

Title: CIF21 DIBBs: Building a Scalable Infrastructure for Data-Driven Discovery and Innovation in Education
PI: Kenneth Koedinger
Agency: National Science Foundation
Grant Number: DATANET 1443068
National Science Foundation award (ACI-1443068)
Duration: 01/01/15 – 12/31/19
Amount: $4,830,819.00
Support:

Title: DIP: Connecting Idea Threads across Communities for Sustained Knowledge Building
PI: Carolyn Rosé (of CMU subcontract to SUNY Albany)
Agency: National Science Foundation
Grant Number: NSF Cyberlearning 1441479
Duration: 9/1/2014-8/31/2018
Amount: 110K
Support: only student support

Title: Next Generation Courseware
PI: Carolyn Rosé (subcontract from Smart Sparrow and UT Arlington)
Agency: Gates Foundation
Grant Number:
Duration: 10/1/2014 to 9/31/2017
Amount: 80K (subcontract on a 4.5 million dollar development grant where 350K total was earmarked for research)
Support: 1.33 month (total over 3 years)

Title: Data Fusion in Networked Time Series Data
PI: Carolyn Rosé
Agency: Navy Research Lab
Grant Number:
Duration: 2/1/2015 to 5/31/2017
Amount: 250K
Support: 1 month

Title: InSpark: Digital Learning Research Network (dLRN)

PI: George Siemens at UT Arlington (Carolyn Rosé is PI on subcontract to CMU)
Agency: Gates Foundation
Grant Number:
Duration: 11/1/2015 to 11/30/2017
Amount: 150K (subcontract on a larger grant)
Support:

Title: Toward Adaptive Interactive Learning Experiences in MOOCs
PI: Justine Cassell
Agency: Google
Grant Number:
Duration: 5/1/2014 to 5/1/2016
Amount: 600K
Support: 80K student support per year (3 years total)

Title: HCC: Medium: Personalized Information Access for Online Deliberation Systems
PI: James Herbsleb
Agency: National Science Foundation
Grant Number: IIS-1302522
Duration: 8/1/2013 to 7/31/2017
Amount: $1,122,000
Support: 1 month

Title: EXP: Collaborative Research: Fostering Ecologies of Online Learners through Technology Augmented Human Facilitation
PI: Carolyn P. Rosé
Agency: National Science Foundation
Grant Number: IIS-1320064
Duration: 9/15/2013 to 2/29/2016
Amount: $278,861
Support: 0.5 month

Title: Using textual notes as light supervision for time series models of sensor data for medical alarms
PI: Carolyn Rosé
Agency: Navy Research Lab
Grant Number:
Duration: 5/1/2014 to 12/1/2014
Amount: 50K
Support: 1 month

Title: Extracting Social Meaning from Linguistic Structures in African Languages
PI: Lori Levin
Agency: Howard University / ARL
Grant Number: 000665610000034354; W911NF-11-2-0042
Duration: 6/10/2011 to 6/9/2016
Amount: $710,602
Support: 1 month

Title: Pittsburgh Sciences of Learning Center Renewal

PI: Kenneth Koedinger
Agency: National Science Foundation
Grant Number: OMA-0836012
Duration: 2/15/2010 to 1/31/2015
Amount: $925,000
Support: 0.5 month

Title: CSCL 2013: Learning across Levels of Space, Time, and Scale Doctoral Constortium and Early Career Workshops
PI: Carolyn P. Rosé
Agency: National Science Foundation
Grant Number: IIS-1331135
Duration: 6/1/2013 to 5/31/2014
Amount: $40,000

Title: Towards Optimization of Macrocognitive Processes: Automating Analysis of the Emergence of Leadership in Ad Hoc Teams
PI: Carolyn P. Rosé
Agency: Office of Naval Research
Grant Number: N00014-11-1-0221
Duration: 1/1/2011 to 12/31/2013
Amount: $909,029
Support: 2 months

Title: Enabling Resilient Massive Scale Open Online Learning Communities through Models of Social Emergence
PI: Carolyn P. Rosé
Agency: Athabasca University Gates Foundation
Duration: 9/1/2013 to 3/31/2014
Amount: $25,000
Support: 0.5 month

Title: Collaborative Research: Conversational Dynamics in Online Support Groups
PI: Robert Kraut
Agency: National Science Foundation
Grant Number: IIS-0968485
Duration: 9/15/2010 to 8/31/2014
Amount: $635,444
Support: 0.25 month

Title: Collaborative Research: Networked Collaboration Modules for Integrating Mathematics and Engineering Education Using Intelligent Agents
PI: Jack Beuth
Agency: National Science Foundation
Grant Number: DUE-1022958
Duration: 9/1/2010 to 8/31/2013
Amount: $264,998
Support: 0.75 month

Title: ICES: Group Cognition: Learning in Engineering Project Terms

PI: Susan Finger & Daniel Siewiorek
Agency: National Science Foundation
Grant Number: EEC-0935127
Duration: 9/1/2009 to 8/31/2013
Amount: $399,928
Support: 0.5 month

Title: ENGAGE: Learning to Solve Problems, Solving Problems to Learn
PI: Vincent Aleven
Agency: DARPA
Grant Number: N0001412C0284
Duration: 6/15/2011 to 7/31/2013
Amount: $1,897,106
Support: 1 month

Title: Dynamic Support for Virtual Math Teams
PI: Carolyn P. Rosé
Agency: Natioinal Science Foundation
Grant Number: DRL-0835426
Duration: 8/1/2009 to 7/31/2013
Amount: $306,132
Support: 0.25 month

Title: HCC-Medium: Collaborative Research: Dynamic Support for Computer-Mediated Intercultural Communication
PI: Carolyn P. Rosé
Agency: Cornell University / National Science Foundation
Grant Number: 573848866; IIS-0803482
Duration: 12/15/2008 to 11/30/2012
Amount: $676,043
Support: 1 month

Title: Theories and Models of Group Cognition
PI: Carolyn P. Rosé
Agency: Drexel University / Office of Naval Research
Grant Number: 204092-3629; N00014-10-1-0277
Duration: 11/12/2009 to 9/30/2012
Amount: $242,500
Support: 2 months

Title: SLC Center: Pittsburgh Science of Learning Center: Studying Robust Learning with Learning Experiments in Real Classrooms
PI: Kenneth Koedinger
Agency: National Science Foundation
Grant Number: SBE-0836012
Duration: 10/1/2004 to 9/30/2012
Amount: $321,000
Support: 2 months

Title: Collaborative Research: Agent-Monitored Tutorials to Enable On-Line Collaborative Learning in Computer-Aided Design and Analysis

PI: Jack Beuth
Agency: National Science Foundation
Grant Number: EEC-0935145
Duration: 9/1/2009 to 8/31/2012
Amount: $349,968
Support: 0.5 month

Title: ADEPT: Assessing Design Engineering Project Classess with Multi-Disciplinary Teams
PI: Daniel Siewiorek
Agency: National Science Foundation
Grant Number: EEC-0648487
Duration: 6/1/2007 to 5/31/2012
Amount: $579,205
Support: 1 month

Title: TFLex: Expanding the Accessibility and Impact of Language Technologies for Supporting Education
PI: Carolyn P. Rosé
Agency: Office of Naval Research
Grant Number: N00014-08-1-1033
Duration: 5/19/2008 to 11/30/2011
Amount: $111,997
Support: 2 months

Title: First-Year Computer-Aided Engineering and Outreach Using Agent-Monitored, Collaborative Tutorials
PI: Jack Beuth
Agency: National Science Foundation
Grant Number: DUE-0837661
Duration: 3/1/2009 to 2/28/2011
Amount: $149,854

Title: Student Support for the Tenth International Conference on Intelligent Tutoring Systems
PI: Jack Mostow
Agency: National Science Foundation
Grant Number: IIS-1014092
Duration: 2/1/2010 to 1/31/2011
Amount: $25,000

Title: IERI: Learning-Oriented Dialogs in Cognitive Tutors: Toward a Scalable Solution to Performance Orientation
PI: Vincent Aleven
Agency: National Science Foundation
Grant Number: DRL-0437794
Duration: 10/1/2004 to 9/30/2010
Amount: $1,270,000
Support: 2.5 months

Title: Student Research Workshop in Computational Linguistics at the North American Association for Computational Linguistics and Human Language Technologies 2009 Conference
PI: Carolyn P. Rosé
Agency: National Science Foundation
Grant Number: IIS-0907847
Duration: 5/1/2009 to 4/30/2010
Amount: $20,200

Title: CycleTalk: Further Exploring the Pedagogical Value of Tutorial Dialogue in Simulation Based Learning
PI: Carolyn P. Rosé
Agency: Office of Naval Research
Grant Number: N00014-07-1-0017
Duration: 10/1/2006 to 9/30/2009
Amount: $360,241
Support: 2 months

Title: A Shared Resource for Robust Semantic Interpretation for Both Linguists and Non-Linguists
PI: Carolyn P. Rosé
Agency: Office of Naval Research
Grant Number: N00014-05-1-0043
Duration: 11/8/2004 to 3/1/2009
Amount: $300,721
Support: 1.8 months

Title: ITR: Tutoring Scientific Explanations via Natural Language Dialogue
PI: Kurt Van Lehn
Agency: National Science Foundation
Grant Number: IIS-0325054
Duration: 1/1/2004 to 1/31/2009
Amount: $2,500,000
Support: 0.8 month

Title: Exploring Adaptive Support for Virtual Math Teams
PI: Carolyn P. Rosé
Agency: National Science Foundation
Grant Number: DRL-0723580
Duration: 8/1/2007 to 7/31/2008
Amount: $49,999
Support: 0.5 month

Title: Verilogue Gift
PI: Carolyn P. Rosé
Agency: Verilogue, Inc.
Grant Number:
Duration: 1/1/2008 to 6/30/2008
Amount: $35,000

Title: Worth Publishers Gift

PI: Carolyn P. Rosé
Agency: Worth Publishers
Grant Number:
Duration: 12/1/2007 to 5/31/2008
Amount: $40,000

Title: Facilitating Accountability for Standards-Based Math at All Levels
PI: Kenneth Koedinger
Agency: GE Foundation
Grant Number:
Duration: 1/1/2005 to 12/31/2007
Amount: $356,129
Support: 2 months

Title: CycleTalk: A Tutorial Dialogue System that Supports Negotiation in a Design Context
PI: Carolyn P. Rosé
Agency: Office of Naval Research
Grant Number: N00014-04-1-0107
Duration: 11/17/2003 to 9/30/2006
Amount: $453,489
Support: 1.8 months

Title: Calculategy: Exploring the Impact of Tutorial Dialogue Strategy in Shaping Student Behavior in Effective Tutorial Dialogue for Calculus
PI: Carolyn P. Rosé
Agency: National Science Foundation
Grant Number: DRL-0411483
Duration: 2/1/2004 to 1/31/2006
Amount: $96,627
Support: 1 month

Title: Developing Usable Mixed-Initiative Planning Systems
PI: Robert Kraut
Agency: National Aeronautics & Space Administration
Grant Number: NNA04CK15A
Duration: 6/1/2004 to 5/31/2005
Amount: $93,457

V. EVIDENCE OF TEACHING PERFORMANCE

COURSES TAUGHT AT CARNEGIE MELLON

- **16-224 Recrafting Soft Technologies (unofficial co-instructor)**
- **11-960 Mathematical Foundations of Machine Learning**
- **11-961 Computational Foundations of Machine Learning**
- **11-637/671/672 Foundations of Computational Data Science**
- **11-604/605 Python for Data Science**
- **11-719 Computational Models of Discourse Analysis**
- **11-899 Summarization and Personal Information Management**
  - **Name changed to Summarization of Documents and Interaction in Fall 2014**
- **11-780 Research Design and Writing**
- **11-718 Conversational Interfaces**
- **11-791 Software Engineering for Information Systems (Co-instructor)**
- **11-344 Machine Learning in Practice (11-633,05-834, 05-434)**
- **05-899 Special Topics: Computer Supported Collaborative Learning**
- **11-722 Grammar Formalisms (Co-instructor)**
- **85-748 Research Methods for the Learning Sciences (Co-instructor)**
- **11-725 Meaning in Language (and Meaning in Language self-paced lab)**
- **11-346 Text Mining in Practice (CMU-Q)**

VI. CONTRIBUTIONS TO EDUCATION

CURRICULUM DESIGN

- **11-718 Conversational Interfaces**
- **11-344 Machine Learning in Practice (05-834, 05-434)**
  - **Redesigned for online instruction Summer/Fall 2020**
- **11-346 Text Mining in Practice (offered as a Micro course at CMU-Q in Spring 2020)**
- **05-899 Special Topics: Computer Supported Collaborative Learning**
- **11-899 Summarization and Personal Information Management**
  - **Renamed Summarization of Documents and Interaction in Fall 2014**
- **11-780 Research Design and Writing**
- **11-719 Computational Models of Discourse Analysis**
- **11-725 Meaning in Language**
  (Computational Track, newly designed in Fall 2009
- **99-101 Computing at Carnegie Mellon**
  (Information Literacy Unit, offered to all CMU Freshman beginning in Fall 2010)
- **85-748 Research Methods for the Learning Sciences**
  (Co-developer of unit on Video and Verbal Protocol Analysis, also co-developed OLI version of that unit in Summer 2011)
- **11-346 Text Mining in Practice (CMU-Q)**
- **11-603 Python for Data Science (major overhaul)**
- **11-637 Foundations of Computational Datascience (reorganization and refinedment)**

OTHER

- Director of MCDS stackable certificate program
- Contributed analysis, design recommendations, or interventions to the following MOOCs: Coursera: Accountable Talk Conversation that Works (University of Pittsburgh, Fall 2013), DALMOOC (University of Texas at Arlington, Fall 2014), edX: Big Data in Education (Columbia, Fall 2015), Medicinal Chemistry (Davidson College, Fall 2015, Spring 2016), edX: The Rise of the Superhero (The Smithsonian Institute, Fall 2015, Spring 2016)
- Co-Instructor of an EdX MOOC on Data, Analytics, and Learning
- Invited contributor of a unit on "Learning Analytics and Educational Data Mining of Discourse Data" for inclusion in a collection of resources disseminated through the ISLS Network of Academic Programs in the Learning Sciences (NAPLES), to be delivered as an online short course
- In collaboration with the Eberly Center for Teaching Excellence, ran a workshop on using CSCL technologies for teaching at CMU, October 2012
- Ran a 2 day text mining workshop at Howard University, co-sponsored by NSF and ARO/ARL, March 12th and 13th, 2012

- Was invited to "Apple Pie with Alpha Chi", an Alpha Pi Omega Nu event that honors "professors who have made a profound impact on our academic lives"
- Working with the HCII Learning Science faculty on the development of a new professional master's program in Learning Sciences and Technology
- Organized and ran a 2 week Winter School at IIIT in December of 2009 (in Hyderabad), 2010 (in Hyderabad), and 2011 (in Delhi) as part of an effort to develop an internship program and build a LearnLab in India, as an international extension of the Pittsburgh Science of Learning Center, secured financial sponsorship from Microsoft Research India and the Pittsburgh Science of Learning Center (http://www.cs.cmu.edu/~cprose/winterschool/index.html, http://www.cs.cmu.edu/~cprose/winterschool2010/index.html). A steadily increasing number of students have applied from year to year (100 in year 1, 200 in year 2, 350 in year 3). 9 interns came to CMU for the summer of 2010, and 9 were accepted for 2011, but a couple could not get visas. The program was covered in The Hindu in Summer 2011 http://www.thehindu.com/todays-paper/tp-features/tp-nxg/article2394460.ece and Edu Tech magazine in April 2012: http://issuu.com/eduindia/docs/edu_issue-03_vol-04_april_2012
- Worked to produce an on-line version of the PSLC summerschool, including video lectures and comprehensive documentation for PSLC course development tools (http://www.cs.cmu.edu/~cprose/Summer09.html)
- Worked with Eric Nyberg and Anatole Gershman on developing a distance education program at LTI
- Worked with Eric Nyberg on the development of a series of professional development minis or full courses for LTI focused on Teaching, Writing, and Experimental Design/Data Analysis. The first of these is currently offered each fall as a 12 unit course entitled Research Design and Writing
- Designed a unit on user research for Eric Nyberg's Software Engineering for Information Systems course.
- Helped lead a research workshop on machine learning at OurCS in Fall, 2007, run through Women in CS with Bob Kraut and Moira Burke (repeated in Spring of 2011, Fall 2015)
- Gave an invited talk on Project Management at the iSLC conference, Spring 2008
- Organizer of AIED 2007 tutorial "TagHelper Tools: Tools for Supporting the Analysis of Verbal Data"
- Organized and ran a 2 week Math Camp for under-prepared middle school students in Summer 2006 with Ariane Watson at Propel Charter School in Homestead as part of a research project on supporting math communication. As a follow up, organized an afterschool program at the same school for Spring 2007.
- Invited instructor at the PSLC/ITS summer school Ken Koedinger and Vincent Aleven organized in Summer 2004 and again in 2006, 2007, 2008, 2009, 2010, 2011, 2012, and so on
- Offered a full-day tutorial on TagHelper tools at CMU on June 19, 2007. 15 people came for the full day, including several from out of state, in addition to 12 more participants from the PSLC/ITS summer school who participated either for part of the time or the whole time, depending on their area of concentration within the summer school. Another one was conducted in 2008 resulting in a number of ongoing collaborations.

VII. **STUDENT ADVISING**

COMPLETED PHD STUDENTS

Rohit Kumar (Researcher at Spotify, formerly Researcher at BBN)

- Year Entered: 2005
- Thesis Title: *Conversational Agents in Multi-Party Interactive Situations*, Defended Fall 2011

Gahgene Gweon (Associate Professor at Seoul National University, formerly Assistant Professor at KAIST)

- Year Entered: 2005
- Thesis Title: *Assessment and Support of the Idea Co-Construction Process in Face-to-Face Engineering Project Groups,* Defended Spring 2012

Guang Xiang (Co-advised with Jason Hong, CEO of startup in China, formerly Research Engineer at Twitter)

- Year Entered: 2007
- Thesis Title: *Fighting Phish in all Frontiers: A Holistic Anti-phishing Solution*, Defended Spring 2013

Mahesh Joshi (Co-advised with William Cohen starting in Fall 2010, now a Research Engineer at E-Bay)

- Year Entered: 2006
- Thesis Title: *Generalizing Classification Models Across Subpopulations in Data*, due to defend in Spring 2013

Iris Howley (Professor at Williams College, formerly Postdoc at Stanford University)

- Year Entered: 2008, PIER Fellowship Awardee
- Area of Study: Motivation/Computer Supported Collaborative Learning

Miaomiao Wen (Data Scientist, Coursera)

- Year Entered: 2011
- Area of Study: Computational Sociolinguistics
- Graduated August 2016

Hye-Ju Jang (Assistant Professor, Indiana University Indianapolis)

- Year Entered PhD program (formerly MLT advised by Jack Mostow): 2012
- Area of Study: Discourse Analysis. Representation of Stylistic Choices.
- Graduated Fall 2017

Xu Wang (Assistant Professor at University of Michigan)

- Year Entered PhD program 2014
- Area of Study: Learner Sourcing
- Graduated Fall 2020

Qinlan Shen (LTI, researcher at Oracle)

- Year Entered PhD program 2015
- Presidential Fellowship/NSF Fellowship/ D&L Gates Fellowship
- Area of Study: Social Media Analysis
- Graduated Summer 2021

Michael Miller Yoder (Teaching Professor, University of Pittsburgh)

- Year Entered: 2015
- Area of Study: Multilingual Discourse
- NSF Fellowship
- Graduated Summer 2021

Aakanksha Naik (Allen Institute for AI)

- Year Entered: 2016
- Area of Study: Social Media/Medical Applications
- Graduated Summer 2022

James Fiacco (LTI, Senior AI Engineer at Wizards of the Coast)

- Year Entered: 2016
- Area of Study: Social Media and Deep Learning

Sreecharan Sankaranarayanan (LTI, now at Amazon)

- Year Entered PhD program 2015
- Area of Study: Learning in MOOCs

Armineh Nourbakhsh (LTI), Now at Apple)

- Year Entered: 2021
- Area of Study: Whole Document Modeling

Marisa (Luke) Breitfeller (LTI) (LTI staff)

- Year Entered: 2017
- Area of Study: Social Media and Health

Ritam Dutt (LTI) (now Senior Applied Scientist at Microsoft)

- Year Entered: 2019
- Area of Study: Modeling Social Aspects of Communication

PHD STUDENTS ON LEAVE

David Adamson (ABS, co-founder of LightSIDE Labs, Engineer at TurnItIn)

- Year Entered: 2010 (began working with me in Summer 2011)
- Area of Study: Dialogue Agents and Discourse Analysis

CURRENT PHD STUDENTS

Yiqing Xie (LTI)
- Year Entered: 2022
- Area of Study: Code Generation and Pragmatics

Atharva Naik
- Entered: 2022
- Area of Study: Automated Code Generation

Mingqian Zheng
- Entered: 2024
- Area of Study: Social Intelligence in LLMs

Zhen Wu
- Year Entered: 2023
- Area of Study: Representations and Reasoning

Nachiket Kotalwar
- Year Entered: 2025
- Area of Study: Agent Collaboration

Doni Moon (HCII)
- Year Entered: 2025, co-advised with John Stamper
- Area of Study: Cognitive Modeling and LLM Reasoning

Shubham Gandhi (LTI)
- Year Entered: 2026
- Area of Study: Coding Agents, Efficiency

M.S. OR PH.D. THESIS COMMITTEE SERVICE

Darren Gergle (PhD)
- *The Value of Shared Visual Information for Task Oriented Collaboration,* defended Spring 2006

Rashmi Gangadharaiah (MLT)
- *Pattern Induction and Spectral Clustering for EBM,* defended Spring 2007

Ananlada Chotimongkul (PhD)
- *Learning the Structure of Task-Oriented Conversations from the Corpus of In-Domain Dialogs,* defended Spring2008

Alicia Tribble (PhD)

- *Textual Inference for Retrieving Labeled Object Descriptions,* defended Spring 2010

Brian Langner (PhD)

- *Data-driven Natural Language Generation: Making Machines Talk Like Humans Using Natural Corpora,* defended January 2010

Satajeev Bannerjee (PhD)

- *Extracting and Using Implicit Supervision to Automatically Improve Meeting-Understanding,* defended September 2010.

Erin Walker (PhD)

- *Automated Adaptive Support for Peer Tutoring*, defended Summer 2010

Ian McCulloh (PhD)

- *Detecting Changes in a Dynamic Social Network*, defended Spring 2009

Sharad Oberoi (PhD)

- *DesignWebs to Support Engineering Design Student Projects*, defended December 2011

Jana Diesner (PhD)

- *Uncovering and Managing the Impact of Methodological Choices for the Computational Construction of Socio-Technical Networks from Texts*, defended Spring 2012

Shilpa Arora (PhD)

- *Opinion Mining and Interactive Annotation Learning*, defended August 2012

Namtarn Chaipah (PhD)

- *PURRS: A Personal Email Organization System using User Response Behaviors and Social Networks*, defended Fall 2011

Yajuan Wang (PhD)

- *Decision Guidance System for Personalized Mechanical Circulatory Assistance*, defended Dec 2011

Ruth Wilie (PhD)

- *ESL –Examining the Generality of Self-Explanation to Second Language Grammar Learning*, defended in August 2011

Xiaoqian Jiang (PhD)

- *Adaptive Learning in Temporal Structural Correlated Environments*, defended Fall 2010

Eric Daimler (PhD)

- *On the persistence of pragmatic relationships with quantitative data using Classification Trees and Regression Trees*, proposed Spring 2012, defended Spring 2013, completed Fall 2013

Natasha Loghmanpour (PhD)
- *Designing Clinical Decision Support Tools for End-Stage Heart Failure*
- Completed 2015

Robert Fisher (PhD)
- Context Awareness and Personalization in Dialogue Planning
- Defended in April 2016

Ben Towne (PhD)
- Design considerations for online deliberation systems
- Defended Fall 2016

Brandon Taylor (PhD)
- Automated transcription of ASL
- Defended in 2018

Tong Zhang (PhD)
- Chemical Engineering
- Text analytics and machine learning techniques for chemical process data management
- Defended Spring 2019

Qian Yang (PhD)
- HCII
- Design and ML
- Defended Spring 2020

Youngjoo Son (PhD)
- Architecture
- Defended Spring 2020

Kiwon Haan (PhD)
- Tepper, Defended Spring 2023

OTHER

- **Heinz School LARK program, PhD students from Singapore Management University advised**
  - Ying Ding (2014/2015)

- **Professional Master's Students Advised**
  - METALS Program: Yujun Song (2013/2014), Martina Pavelko (2013/2014), Danny Koh (Fall 2014), Chien-Yu Chang (2014/2015), David Hwang (2014/2015), Shaileja Relwani (2015/2016), Junyu Huang (2016/2017), Nick Lewis (2016/2017),

Tianmi Fang (2017/2018), Srinivasa Teja Talluri (2017/2018), Kexin Yang (2018/2019), Duoduo Zhang (2018/2019), Kim Larson (2018/2019), Chuyao (Chelsea) Hua (2019/2020), Yue (Carol) Jiang(2019/2020), Shiyang (Sabrina) Lyu(2019/2020), Guodong Zhao (2019/2020), Daniel de Angula (2020/2021), Jimmy King (2021/2022), Tiago Castro (2021/2022), Liwei Liu (2022/2023), Manqing Yu (2023/2024)

- Master's of Intelligent Information Systems: Pulkit Bhuwalk (2013/2014), Jinsub Hong (2014/2015), Bowen Zhu (2014/2015), Zhengyang Ruan (2014/2015), Haitian Gong (2015-2016), Anusha Bagalkotkar (2016/2017), Shivani Poddar (2016/2017, co-advised with Alan Black), Arpita Reddy (Spring 2017), Alexander Coda (2017/2018), Ipsita Prakash (2017/2018), Anusha Kamath (2017/2018), Arvind Srikantan (2017/2018), Srividya Potharaju (2017/2018), Hariharan Muralidharan (2018/2019), Huiming Jin (2018/2019), Shefali Garg (2018/2019), Prashant Gupta (2018/2019), Ethan Xuanyue Yang (2018/2019), Yingqi Zhou (2018/2019), Feng-Guang Su (2020/2021), Ashley Oh (2021/2022), Qi Jiang (2021/2022), Sunitha Selvan Ravi (2021/2022), Sireesh Gujararaja (2021, transferred to MLT), Srinivas Gowriraj (2022/2023), Atharva Naik (2022/2023), Yash Butala (2022/2023), Soham Tiwari (2022/2023), Divyanshu Sheth (2023/2024), Aadit Deshpandi (2023/2024), Manav Kapadnis (2024/2025), Shubham Gandhi (2024/2025), Dhatchi Kunde Govindarajan (2024/2025), Lawanya Baghel (2024/2025), Dhruv Gupta (2024/2025), Keer Xu (2024/2025), Gayathri Ganesh Lakshmy (2024/2025)

- **MIIS Capstone Teams Supervised**
  - [2023] Multimodal Agent Support: Soham Dinesh Tiwari, Aditya Rathod, Navaneethan Vaikunthan
  - [2024] Low Resource Code Translation: Afreen Shaikh, Shrikara Varna, Siddhant Waghjale
  - [2024] Multimodal Code Generation: Divyanshu Sheth, Nikhil Kandukur
  - [2025] Code Generation for Visualization: Lawanya Bhegel, Manav Kapandis
  - [2025] Efficient Agent Collaboration: Shubham Gandhi

- **MCDS Capstone Teams Supervised**
  - [2025] ARC Challenge, Akhil Dua, Naman Tuli, Jake Bentley
  - [2025] Beyond H-index, Divyan Goyal, Wenhao Xu, Wang Xiang
  - [2025] Human-AI Collaboration, Shanru Lin, Yogesh Adhi Narayan, Xinyi Li
  - [2026] Automated Code Refactoring, Aditya Oke and Adarsh Rajesh

- **Undergraduate Research through SRC-URO Program**
  - Laura Brown, discourse analysis and dialogue agents, Spring 2012-present
  - Margaret Schervish worked on sociolinguistics through speech datamining, Spring 2011-Spring 2012

- **Undergraduate Research through DRU Program (Distributed Research for Undergrads, sponsored through Texas A&M)**
  - Kristine Johnson from Wesleyan University did an internship here related to analysis of code-switching in social media in Summer 2011 (co-advised with Lori Levin)
  - Laura Willson from Barnard College did an internship here related to analysis of code-switching in social media in Summer 2011 (co-advised with Lori Levin)

- **Undergraduate Theses/Senior Projects Supervised**
  - Benjamin Klixbull (Tepper) working on opinion mining from a marketing standpoint, co-advised with Kinshuk Jerath, August 2009 – May 2010
  - Cary Yang (HCII) (Co-advised with Kayvon Fatahalian), supporting threaded discussions in online learning
  - Siddharth Parekh (CSD) Financial QA, 2024

- **LTI Minor Project Advising**
  - Aditya Mukherji, working on an application related to reviewing local businesses, January 2011-May 2011
  - Chandrakumari Suvarna, computational modeling of student writing to trigger feedback, January 2019-May 2019
  - Clarissa Xu, misinformation detection, Spring 2022
  - Mads Turner, Us vs. They/them: Establishing Identity on r/GenderCritical

- **CSD 5th Year Project Advising**
  - **Meghna Iyengar,** 2023/2024, LLM-generated Rationales for Generalizability in the Entailment Task
  - **Zhijie Xu,** 2024/2025, LLM support for Onboarding in Open Source Software Development
  - **Siddharth Parekh,** 2025/2026 Neural Model Representations

- **Post Docs Supervised**
  - Hua Ai, working on dialogue systems and CSCL, October 2009 – September 2010
    - Now a research scientist at Georgia Tech: http://www.cc.gatech.edu/~hai7/
  - Gregory Dyke, working on analysis of CSCL data, November 2010 – May 2012
    - Now a Post-doc at Institut Français de l'Education
  - Seza Drugoz, visiting post-doc at LTI from Tilburg University, Tilburg School of Humanities, Spring/Fall 2013, working on social interpretation of code switching
  - Einat Metzuyanim, visiting post-doc at LRDC (Fall 2013-Summer 2015) co-advised with Lauren Resnick from The Technion, Haifa, Israel, working on automated analysis of classroom discourse

- Oliver Ferschke, working on large scale deployment of language technologies in MOOCs, Fall 2014-Fall 2016 (Now a research engineer at M*Modal)
- Shiyan Jiang, Summer 2018-Summer 2019 (Now an Assistant Professor at NC State)
- Lisa Carey-Lohmueller, Fall 2017-Fall 2019 (Now a product manager at M*Modal)
- Denis Newman-Griffis, University of Pittsburgh, Fall 2020-Summer 2022 (Assistant Professor)
- Shikhar Vashishth, Feb 2020-Jan 2021 (Researcher in Industry)

- **Students from Abroad Hosted and/or Advised Remotely**
  - Christof Wecker (PhD) from Frank Fischer's group at Ludwig-Maximillians Universiteat in Munich visited my group for 6 weeks in Spring 2007 to participate in my CSCL course and learn how to use TagHelper tools
  - Vikram Chatterji (undergraduate) did an internship with me in Summer 2009, working on infrastructure for LearnLab India, and worked with me in collaboration with Dr. Pradeep Yammiyavar from the Design department at IIT Guwahati on his B-tech project related to modeling search behavior and personalized support for information seeking. He will start as an MHCI student in Fall 2010.
  - Marietta Sionti (PhD), Linguistics PhD student from the University of Athens, visited me for 6 months to work on her dissertation starting in Summer 2009
  - Abhishek Anand (undergraduate) from the Computer Science and Engineering department of IIT Guwahati invited me to be a co-advisor of his B-tech project in collaboration with Hemangee Kapoor in the area of machine learning applied to operating systems optimization. This was after he participated in my on-line machine learning class in Spring of 2009.
  - Kiran GVR (undergraduate) and Ravi Shankar Reddy (undergraduate), both from IIIT-Hyderabad did an internship with me through the Internship Program in Technology Supported Education (IPTSE) in summer of 2010. They worked with MLT student Nitin Agarwal on the SciSumm multi-document summarization system for Scientific Articles. That work was accepted as a demo at ACL and workshop paper at an ACL workshop about summarization for different genres. Both papers were first authored by Nitin.
  - Pulkit Agarwal (undergraduate) and Mikesh Udani (undergraduate) from IIT Kanpur were interns co-advised by Bhiksha Raj and I through IPTSE in Summer of 2010, working on detection of transactivity in speech. They worked with PhD student Gahgene Gweon. That work was published in a full paper at CSCL 2011, with Gahegne as first author, and won a best student paper award.
  - Tushar Suresh (undergraduate) from NIT Surathkal was an intern, co-advised by me and Bob Kraut through IPTSE on analysis of social media in Summer 2011.

- Amol Verma (undergraduate) from IIIT Delhi was an intern in my group working on SMS based collaboration in Summer 2012. Continued working with my group during the 2012/2013 school year for his B-Tech project.
- Shaik Ismail (undergraduate) from NIT Rourkela was an intern in my group working on modeling dialect switching in Twitter in Summer 2012.
- Ying Ding (PhD), exchange program with Singapore Management University, co-advised locally at CMU in 2014/2015 with advisor from SMU.
- Haogang Wang (PhD), Beijing Normal University, Spring 2020-Summer 2021
- Stephanie Bowles (PhD), Penn State, Summer 2024
- Hyun Ryu (MS), KAIST, Fall 2025, Spring 2026

- **Outside Reader**
  - Andrew Marriott, December 2006, Curtin University of Technology, Perth, Western Australia
  - Ilda Ladeira, December 2012, University of Cape Town, South Africa
  - Shafiq Rayhan Joty, May/June 2013, University of British Columbia, Canada
  - Jenny McDonald, September 2013, University of Otago, New Zealand
  - Oliver Ferschke, Spring 2014, Technische Universitaet Darmstat, Germany
  - Li Wang, Summer 2014, University of Melbourn, Australia
  - Bodong Chen, Summer 2014, University of Toronto, School of Education, Canada
  - Served for 2 years on Anita Delahay's committee (CMU Psychology dept.) to support training in Machine Learning in support of early research ideas.

- **Outside Committee Member**
  - David N. Prata from the Federal University of Alagoas in Maceio, Brazil visited for six months in Spring/Summer 2008 to work on his dissertation in my group under my supervision. I am serving as one of his committee members with Evandro Costa from the Federal University of Alagoas as his advisor.
  - Mihai Rotaru, Computer Science Department, University of Pittsburgh
  - Praveen Garimella, Center for Educational Technology and Learning Sciences, International Institute for Information Technologies in Hyderabad
  - Karthik Dinakar, Massachusetts Institute of Technology (Master's thesis related to analysis of social media/Cyber Bullying, now serving on his PhD dissertation committee)
  - Bugeun Kim, Seoul National University (PhD dissertation)
  - Elaine Farrow, University of Edinburgh (PhD dissertation)
  - Hecong (Alan) Wang, University of Rochester (PhD dissertation)
  - Joseph Gatto, Dartmouth University (PhD dissertation)

- **Completed MLTs:**
  - Jaime Arguello (now an assistant professor at UNC), Rohit Kumar (Now a Researcher at BBN), Yi-Chia Wang (PhD student in LTI), Mahesh Joshi (PhD student at LTI), Sourish Chaudhuri (PhD student at LTI), Moonyoung Kang (PhD student at Northeastern, was a Research programmer at BBN), Naman Gupta (Engineer at Amazon), Dong Nguyen (PhD student at the University of Twente), Elijah Mayfield (PhD student at LTI), Nitin Agarwal (Research programmer at BBN), David Adamson (Research programmer at LTI), Philip Gianfortoni (Engineer at Google), Manaj Srivastava (Research programmer at BBN), Mahaveer Jain (Engineer at Facebook), Phani Gadde (IBM Watson), Zeyu Zheng (Google Pittsburgh), Ryan Carlson (Carnegie Learning), Abhimanyu Kumar (Research Scientist, Gageln, Inc.), Mario Piergallini (Research staff, Howard University), Diyi Yang (LTI PhD student), Gaurv Tomar (August 2016, Google), Keith Maki (August 2016, LTI PhD student), Yohan Jo (August 2016, LTI PhD student), Leah Nicolich-Henkin (August 2016, Amazon), Michael Miller Yoder (August 2017, LTI PhD), Aaksha Meghawat (August 2017, LTI PhD – deferred, working at Apple), Shrimai Prabhumoye (August 2017, LTI PhD), Shivani Poddar (August 2018, Facebook), Aakanksha Naik (August 2018, LTI PhD), James Fiacco (August 2018, LTI PhD), Samridhi Chaoudhary (August 2018, seeking an industry position), Luke Breitfeller (August 2019, LTI PhD), Xinru Yan (August 2020, seeking an industry position), Yansen Wang (August 2021, Microsoft Research Asia), Sopan Khosla (August 2021, Amazon), Meredith Riggs (August 2021, industry), Joseph Masom (August 2021, industry), Justin Lovelace (August 2022, PhD at Cornell), Rosanna Vitiello (CMU staff, then PhD), Sireesh Gururaja (PhD, LTI), Atharva Naik (PhD, LTI, August 2024), Zhen Wu (LTI PhD, August 2025)

- **Qualifying Exam Committee Member**
  - Sharad Oberoi, CEE, Carnegie Mellon University
  - Zan Wang, CEE, Carnegie Mellon University

- **Other Capstone Projects Supervised**
  - Zhiqi Li et al. (VLIS, Stock Prediction Project)
  - E-biz student group, collaboration with Newton Consulting

- **Independent Studies Supervised**
  - Gahgene Gweon (MHCI)
  - Satanjeev Banerjee (LTI PhD)
  - Chih-yu Chao (LTI Masters)
  - Adele Weitz (Heinz undergrad)
  - Stephanie Rosenthall (CSD undergrad)
  - Shilpa Arora (LTI Masters student)
  - José Gonzales (LTI Masters student)
  - Ranjitha Kulkarni (MSIT-VLIS student)

VIII. **UNIVERSITY SERVICE**

UNIVERSITY SERVICE AND COMMITTEE WORK

- Strategic Planning Committee for Education and the Student Experience under Indira Nair for the 2008 CMU reaccreditation
- Organized the "Innovation with Impact" poster session as part of Graduate Student Appreciation Week with Indira Nair and others, Spring 2008. This was so successful that it has become a yearly event as part of graduate student appreciation week, although I am no longer organizing it.
- University Education Council for 2008-2014
  - Faculty Senate Representative for 2008-2009
  - Faculty Senate Representative for 2010-2011
- Faculty Senate Nominating Committee for 2009-2010
- Steering Committee for C@CM (Computing at Carnegie Mellon, a course that all of the Freshman take), Fall 2010-
  - Serving as content expert on a unit on Information Literacy that was included in the revamped C@CM course starting in Fall 2010
- University Libraries Advisory Committee for 2011-2012
- Serving on the Experience Design Network (Learning Media Research Group) 2013-
- University Committee on Special Appointments (Fall 2013- Summer 2015)
- Planning committee for the 2014 meeting of the Global Learning Council (Simon DataLab)
- Leader of the Technologies sub-committee of the Simon Initiative/TEL Writing/Comm Committee
- Serving a term as an Expedited reviewer on the Institutional Review Board (Summer 2016 – Summer 2021)
- Vice Chair of the University Education Council (9/1/2021 – 9/1/2023), and liaison to the Faculty Senate Executive Committee.
- Director of the Generative AI Innovation Incubator sereies (Summer 2023), with thousands of participants overall and over 7,000 views of youtube recordings of events

SCHOOL AND DEPARTMENT SERVICE AND COMMITTEE WORK

- SCS SCS MS Program Review Committee, AY 2023, AY 2024
- HCII Awards committee and LTI Awards committee, AY 2025
- HCII Learning science seminar co-lead, AY 2025
- SCS review committee for AAAI/ACM SIGAI AI Dissertation Award, Fall 2024
- Faculty Program head for LTI's Master of Computational Data Science program (January 2023- present)
- Faculty Program Head for LTI Undergraduate Minor and Concentration (Fall 2022-present)
- Director of the Generative AI Innovation Incubator (GAI3), Summer 2023
- Interim Department Head, LTI, August 2021-August 2023

- Chair of LTI Hiring Committee 2020/2021
- SCS College Council Dec 2019 – Dec 2022
  - served on two subcommittees for COVID 19 planning in Summer 2020
  - LTI Council Spring 2020-Summer 2021
- Co-Organizer of Fall 2019 LTI Student Research Symposium (Faculty advisor for SRS Fall 2022 and Fall 2023)
- LTI PhD/MLT Admissions Chair 2018/2019
- SCS R&P Committee, 2018-2019
- SCS Student Teaching Awards Committee 2017
- Chair of LTI Hiring Committee, 2016-2017
- LTI Hiring Committee, AY 2024
- LTI Governance Committee – 2015-2016
- Co-organizer of LTI Open House, Spring 2016
- Organized a workshop on The Future of MOOCs for the HCII Anniversary Celebration, November 2014
- Organizing Committee Member, Home for Learning Sciences at CMU, Spring 2013 – 2018
- LTI Education Committee Member (and Chair 2009-2014), Fall 2009 – Spring 2015, AY2024
- HCII Hiring Committee (for joint HCII-ETC position), Fall 2012/Spring 2013, AY 2024
- LTI Distance Education Task Force Leader, Fall 2009 - 2010
- MHCI Admissions Committee, 2005, 2006
- LTI Admissions Committee, 2004, 2006, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, helped with LTI-HCII applications in 2016, chair for 2018. Note that beginning in 2019, all faculty are required to participate in one admissions committee per year
- MIIS Admissions Committee 2014, 2016, 2017, 2019, 2020
- METALS Admissions committee 2015, 2016, 2017, 2018, 2019
- METALS Curriculum Committee 2015 - present
- HCII PhD Admissions Committee, 2007, 2009, 2012, 2013
- HCII Curriculum Committee Member Fall 2006- Spring 2009
- LTI Faculty Senator 2007-2009
- HCII Faculty Senator 2009-2011
- Organizer of LTI 2007 Faculty Retreat 2007
- Organizer for the LTI 2007 New Collaborations Competition
- Faculty Mentor of 2007 and 2008 LTI Student Research Symposium (and 2022, 2023)
  - Offering "behind the scenes" support for the 2009, 2010, 2011 and 2012, 2015 Student Research Symposiums

OTHER

- Spoke on Professional Development Panel in Jan 2016 for HCII Jr Faculty
- Served as a Mentor for the 2010 Get Your Act Together Workshop organized by Nancy Klancher
- Executive Committee member of the Pittsburgh Science of Learning Center and Co-Thrust Leader for its Social and Communicative Factors in Learning Thrust 2009-2015

- Pittsburgh Science of Learning Center Seminar Series Coordinator 2005-2007
- Facilitator for Collaborative Learning Reading and Discussion Group 2005-2006
- Facilitator for a Pragmatics reading group, Fall 2007
- Facilitator of the HCI in the Developing World reading group, Fall 2007, Spring 2008, Fall 2008
- Facilitator of the LearnLab India on-line reading group, Fall 2009 – Spring 2010