

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

- [2011-present] *Associate Professor (Tenure Track)*, 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.*

II. PUBLICATION LIST

- Google Scholar h-index: 29
- The Rosé et al. 2008 ijCSCL article is my most cited first authored paper, with 125 citations. It was noted in the Summer 2012 Editorial Board report to tie for second place as most cited article in the journal for all time, based on ISI Web of Science citations.
- Second most cited first authored paper (Rosé, Jordan, Ringenberg, Siler, VanLehn & Weinstein, 2001), which was nominated for a Best Paper Award at AI in Education, has 119 citations.
- Most cited co-authored paper (Graesser, VanLehn, Rosé, Jordan, & Harter, 2001) has 272 citations according to Google Scholar. This was an invited article for AI Magazine's Winter 2001 issue, and is thus not listed as a refereed publication below.
- Most frequently downloaded paper on the ACM Digital library (Gweon, Carey, Zais, & Rosé, 2006), which was awarded an Honorable Mention Award at ACM SIG-CHI 2006, has gotten 750 downloads.

BOOKS

1. Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (in press). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.

CHAPTERS IN BOOKS

2. Rosé, C. P. & Borge, M. (in preparation). Invited chapter in E. Salas & Fiore, S. (Eds.) **Measuring Engagement in Social Processes that Support Shared Cognition, Developing Multidisciplinary Measurement Approaches for Team Cognition Research**, American Psychological Society.
3. Resnick, L. & Rosé, C. P. (in preparation). Classroom Language. Invited chapter in the **Handbook of Educational Psychology on Classroom Teaching**.
4. Rosé, C. P. & Lund, K. (in press). 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.
5. Lund, K., Rosé, C. P., Suthers, D., & Baker, M. (in press). 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.
6. Dyke, G., Howley, I., Adamson, D., Kumar, R., Rosé, C. P. (in press). 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.
7. Howley, I., Kumar, R., Mayfield, E., Dyke, G., & Rosé, C. P. (in press). 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.

8. Howley, I., Mayfield, E., Rosé, C. P., & Strijbos, J. W. (in press). 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.
9. Rosé, C. P. (in press). A Multivocal Analysis of the Emergence of Leadership in Chemistry Study Groups, in Suthers, D., Lund, K., Rosé, C. P., Teplovs, C., Law, N. (Eds.). **Productive Multivocality in the Analysis of Group Interactions**, edited volume, Springer.
10. Suthers, D., Lund, K., Law, N., Rosé, C. P., & Teplovs, C. (in press). 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.
11. Rosé, C. P. & Tovaes, A. (in press). 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.
12. Mayfield, E. & Rosé, C. P. (in press). LightSIDE: Open Source Machine Learning for Text Accessible to Non-Experts, Invited chapter in the **Handbook of Automated Essay Grading**, Routledge Academic Press.
13. 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.
14. 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.
15. 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.
16. 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.
17. Sionti, M., Ai, H., Rosé, C. P., Resnick, L. (2011). A Framework for Analyzing Development of Argumentation through Classroom Discussions, in Niels Pinkwart & Bruce McClaren (Eds.) **Educational Technologies for Teaching Argumentation Skills**, Bentham Science.
18. Gweon, G., Jeon, S., Lee, J., Rosé, C. P. (2011). Diagnosing Problems in Student Project Groups, in Puntambekar, S., Erkens, G., Hmelo-Silver, C. (Eds.) **Analyzing Collaborative Interactions in CSCL: Methods, Approaches and Issues**, Springer.
19. Cui, Y., Chaudhuri, S., Kumar, R., Gweon, G., Rosé, C. P. (2009). Helping Agents in VMT, in G. Stahl (Ed.) **Studying Virtual Math Teams**, Springer CSCL Series, Springer.
20. Lavie, A. & Rosé, C. P. (2004). Optimal Ambiguity Packing in Context-Free Parsers with Interleaved Unification. In H. Bunt, J. Carroll and G. Satta (eds.), **Current Issues in Parsing Technologies**, Kluwer Academic Press. (24% of submissions accepted for book publication)
21. 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.
22. Rosé, C. P. (1999). A Genetic Programming Approach for Robust Language Interpretation, in L. Spencer et al. (eds.) **Advances in Genetic Programming**, Volume 3, The MIT Press.

23. 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.
24. Qu, Y., DiEugenio, B., Lavie, A., Levin, L., & Rosé, C. P. (1997). Minimizing Cumulative Error in Discourse Context, In E. Maier, M. Mast and S. LuperFoy (eds.), **Dialogue Processing in Spoken Language Systems: Revised Papers from ECAI-96 Workshop**, LNCS series, Springer Verlag.

REFEREED JOURNAL PAPERS - PUBLISHED

25. Rosé C. P., & VanLehn, K. (2005). An Evaluation of a Hybrid Language Understanding Approach for Robust Selection of Tutoring Goals, *International Journal of AI in Education* 15(4).
26. Rosé, C. P., Kumar, R., Alevan, 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.
27. 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.
28. 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* 31(1), 3-52 (**Impact factor: 2.59**)
29. 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**)
30. 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**)
31. 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.
32. 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**)
33. 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.
34. 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.
35. 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 Learning* 7(2), pp285-305.
36. 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).
37. Gweon, G., Jain, M., Mc Donough, J., Raj, B., Rosé, C. P. (accepted). Measuring Prevalence of Other-Oriented Transactive Contributions Using an Automated Measure of Speech Style Accommodation, *International Journal of Computer Supported Collaborative Learning*

38. Kumar, R. & Rosé, C. P. (accepted). Triggering Effective Social Support for Online Groups. *ACM Transactions on Interactive Intelligent Systems*.
39. Dyke, G., Adamson, A., Howley, I., & Rosé, C. P. (accepted). Enhancing Scientific Reasoning and Discussion with Conversational Agents, to appear in the *IEEE Transactions on Learning Technologies* special issue on Science Teaching

REFEREED CONFERENCE/WORKSHOP PAPERS

1. Mayfield, E., Adamson, D., & Rosé, C. P. (2013). Recognizing Rare Social Phenomena in Conversation: Empowerment Detection in Support Group Chatrooms, **Proceedings of the Association for Computational Linguistics** (full paper).
2. Clarke, S., Chen, G., Stainton, K., Katz, S., Greeno, J., Resnick, L., Howley, H., Adamson, D., Rosé, C. P. (2013). The Impact of CSCL Beyond the Online Environment, **Proceedings of Computer Supported Collaborative Learning**
3. Adamson, D., Jang, H., Ashe, C., Yaron, D., Rosé, C. P. (2013). Intensification of Group Knowledge Exchange with Academically Productive Talk Agents, **Proceedings of Computer Supported Collaborative Learning**
4. Joshi, M., Dredze, M., Cohen, W. & Rosé, C. P. (2013). What's in a Domain? Multi-Domain Learning for Multi-Attribute Data. **Proceedings of the North American Chapter of the Association for Computational Linguistics (short paper)**.
5. Dyke, G., Goggins, G., Mayfield, E., Rosé, C. P. (2013). Comparison of Network Heuristics for Understanding Small Groups in Synchronous Collaborative Learning, **Proceedings of Learning Analytics and Knowledge 2013 (poster)**.
6. Alevin, V, Koedinger, K., Dow, S., Myers, B., Carver, C., Harpstead, E., Lomas, D., Yannier, N., Rosé, C. P. (2013). Supporting Inquiry and Social-Emotional Development in Games for K-3 Science Learning, in **Proceedings of Games, Learning, and Society**, Madison, WI, June 2013.
7. Adamson, D.,Bhartiya, D., Gurjal, B., Kedia, R., Singh, A., Rosé, C. P. (2013). Automatically Generating Discussion Questions, in **Proceedings of AI in Education**
8. Joshi, M., Dredze, M., Cohen, W. & Rosé, C. P. (2012). Multi-Domain Learning: When Do Domains Matter, in **Proceedings of the 2012 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning, EMNLP-CoNLL 2012**, July 12-14, 2012, Jeju Island, Korea, pp 1302-1312.
9. Jain, M., McDonogh, J., Gweon, G., Raj, B., Rosé, C. P. (2012). An Unsupervised Dynamic Bayesian Network Approach to Measuring Speech Style Accommodation, **EACL 2012 Proceedings of the 13th Conference of the European Association for Computational Linguistics**, Avignon, France, April 23-27, 2012, pp787-797.
10. Mayfield, E., Adamson, D. & Rosé, C. P. (2012). Hierarchical Conversation Structure Prediction in Multi-Party Chat. **Proceedings of the SIGDIAL 2012 Conference, The 13th Annual Meeting of the Special Interest Group on Discourse and Dialogue**, 5-6 July 2012, Seoul National University, Seoul, South Korea. The Association for Computer Linguistics 2012, pp 60-69.
11. Wen, M. & Rosé, C. P. (2012). Understanding Participant Behavior Trajectories in Online Health Support Groups Using Automatic Extraction Methods, **GROUP '12 Proceedings of the 17th ACM International Conference on Supporting Group Work**, ACM, New York, pp 179-188.
12. Mayfield, E., Wen, M., Rosé, C. P., Golant, M. (2012). Discovering habits of Effective Online Support Groups, **GROUP '12 Proceedings of the 17th ACM International Conference on Supporting Group Work**, ACM, New York, pp 263-272.
13. Gweon, G., Jain, M., McDonogh, J., Raj, B., Rosé, C. P. (2012). Predicting Idea Co-Construction in Speech Data using Insights from Sociolinguistics, in **Proceedings of the International Conference of the Learning Sciences**, Sydney, Australia.
14. Dyke, G., Kumar, R., Ai, H., Rosé, C. P. (2012). Challenging Assumptions: using sliding window visualizations to reveal time-based irregularities in CSCL processes, in

- Proceedings of the International Conference of the Learning Sciences**. Sydney, Australia. [Best Paper Award Nomination]
15. Mayfield, E., Adamson, D., Rudnicky, A., & Rosé, C. P. (2012). Computational Representation of Discourse Practices in Task-based Dialogue, **ICIC 2012 Proceedings of the 4th ACM International Conference on Intercultural Collaboration**, pp 67-76
 16. Kulkarni, R., Tushar, S., Trivedi, G., Wen, M., Zheng, Z., & Rosé, C. P. (2012). Supporting Collaboration in Wikipedia between Language Communities, **ICIC 2012 Proceedings of the 4th ACM International Conference on Intercultural Collaboration**, pp 47-56
 17. Dinakar, K., Jones, B., Lieberman, H., Rosé, C. P., Thoman, M. (2012). You Too?! Theme-based story matching to help teens in distress, **Proceedings of the 6th International AAI Conference of Weblogs and Social Media**, Trinity College, Dublin, Ireland (full paper)
 18. Xiang, G., Liu, C., Zheng, Z., Wen, M., Hong, J., Rosé, C. P. (2012). A supervised approach to predict company acquisition with factual and topic features using profiles and news articles on TechCrunch, **Proceedings of the 6th International AAI Conference of Weblogs and Social Media**, Trinity College, Dublin, Ireland (short paper)
 19. Dyke, G., Howley, I., Adamson, D., Rosé, C. P. (2012). Towards Academically Productive Talk Supported by Conversational Agents, **ITS 2012 Proceedings of the 11th International conference on Intelligent Tutoring Systems**, Lecture Notes in Computer Science Volume 7315, Springer-Verlag, pp 531-540.
 20. Carlson, R., Keiser, V., Matsuda, N., Rosé, C. P., Koedinger, K. (2012). Building a Conversational SimStudent, **ITS 2012 Proceedings of the 11th International conference on Intelligent Tutoring Systems**, Lecture Notes in Computer Science Volume 7315, Springer-Verlag, pp 563-569.
 21. Howley, I., Adamson, D., Dyke, G., Mayfield, E., Beuth, J., & Rosé, C. P. (2012). Group Composition and Intelligent Dialogue Tutors for Impacting Students' Self-Efficacy, **ITS 2012 Proceedings of the 11th International conference on Intelligent Tutoring Systems**, Lecture Notes in Computer Science Volume 7315, Springer-Verlag, pp 551-556.
 22. Adamson, D. & Rosé, C. P. (2012). Coordinating Multi-Dimensional Support in Conversational Agents, **ITS 2012 Proceedings of the 11th International conference on Intelligent Tutoring Systems**, Lecture Notes in Computer Science Volume 7315, Springer-Verlag, pp 346-351.
 23. Xiang, G., Hong, J., & Rosé, C. P. (2012). Detecting Offensive Tweets via Topical Feature Discovery over a Large Scale Twitter Corpus, **Proceedings of The 21st ACM Conference on Information and Knowledge Management**, Sheraton, Maui Hawaii, Oct. 29- Nov. 2, 2012.
 24. Gianfortoni, P., Adamson, D. & Rosé, C. P. (2011). Modeling Stylistic Variation in Social Media with Stretchy Patterns, in **Proceedings of First Workshop on Algorithms and Resources for Modeling of Dialects and Language Varieties**, Edinburgh, Scotland, UK, pp 49-59.
 25. Kumar, R. & Rose, C. P. (2011). Comparing Triggering Policies for Social Behaviors, in **Proceedings of the SIGDIAL 2011: the 12th Annual Meeting of the Special Interest Group on Discourse and Dialogue**, pp 227–238, Portland, Oregon.
 26. Mayfield, E. & Rosé, C. P. (2011). Recognizing Authority in Dialogue with an Integer Linear Programming Constrained Model, in **Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies**, pp 1018–1026, (full paper, acceptance rate 25%)
 27. Howley, I., Mayfield, E., Rosé, C. P. (2011). Missing Something? Authority in Collaborative Learning, in **Proceedings of the 9th International Computer Supported Collaborative Learning Conference, Volume 1: Long Papers**, pp 336-373
 28. Kumar, R., Beuth, J., Rosé, C. P. (2011). Conversational Strategies that Support Idea Generation Productivity in Groups, in **Proceedings of the 9th International Computer**

Supported Collaborative Learning Conference, Volume 1: Long Papers, pp 398-405.

29. Mu, J., Stegmann, K., Mayfield, E., Rosé, C. P., Fischer, F. (2011). ACODEA: A Framework for the Development of Classification Schemes for Automatic Classification of Online Discussions, in **Proceedings of the 9th International Computer Supported Collaborative Learning Conference, Volume 1: Long Papers**, pp 438-445.
30. Gweon, G., Agarwal, P., Udani, M., Raj., B., Rosé, C. P. (2011). The Automatic Assessment of Knowledge Integration Processes in Project Teams, in **Proceedings of the 9th International Computer Supported Collaborative Learning Conference, Volume 1: Long Papers**, pp 462-469. [Best Student Paper Award]
31. Suthers, D., Lund., K., Rosé, C. P., Dyke, G., et al., (2011). Towards Productive Multivocality in the Analysis of Collaborative Learning, in **Proceedings of the 9th International Computer Supported Collaborative Learning Conference, Volume 3: Symposia**, pp 1015-1022.
32. Howley, I. & Rosé, C. P. (2011). Modeling the Rhetoric of Human-Computer Interaction, in **HCI'11 Proceedings of the 14th international conference on Human-computer interaction: interaction techniques and environments**, pp 341-350, Springer-Verlag Berlin, Heidelberg
33. Agarwal, N., Reddy, R. S., GVR, K., Rosé, C. P. (2011). A Multi-document Summarization System for Scientific Articles, in **Proceedings of the ACL-HLT 2011 System Demonstrations**, pp 115–120, Portland, Oregon, USA, 21 June 2011.
34. Agarwal, N., Reddy, R., GVR, K., & Rosé, C. P. (2011). Towards Multi-Document Summarization of Scientific Articles: Making Interesting Comparisons with SciSumm, in **Proceedings of the Workshop on Automatic Summarization for Different Genres, Media, and Languages**, pp 8–15, Portland, Oregon, June 23, 2011.
35. Nguyen, D. & Rosé, C. P. (2011). Language use as a reflection of socialization in online communities, in **Proceedings of the Workshop on Language in Social Media (LSM 2011)**, pp 76–85, Portland, Oregon, 23 June 2011.
36. Nguyen, D., Smith, N. A., & Rosé, C. P. (2011). Author age prediction from text using linear regression, in **Proceedings of ACL-HLT 2011 Workshop on Language Technologies for Cultural Heritage, Social Sciences, and Humanities (LaTeCH 2011)**, pp 115-123.
37. Wang, Y., Rosé, C. P., Ferreira, A., McNamara, D., Antaki, J. (2010). A Classification Approach for Risk Prognosis of Patients on Mechanical Ventricular Assistance, **Proceedings of the 9th International Conference of Machine Learning Applications (ICMLA '10)**, pp 293 – 298.
38. Sionti, M., Claudino, L., Rosé, C.P., Markantonatou, S. & Aloimonos, Y. (2010) Comparing linguistic classifications with sensorimotor data of English and Greek verbs of motion. **Proceedings of the Interdisciplinary Workshop on Verbs: The Identification and Representation of Verb Features (Verb 2010)**, Pisa 4-5 November 2010. (acceptance rate 23%)
39. Mayfield, E. & Rosé, C. P. (2010). Using Feature Construction to Avoid Large Feature Spaces in Text Classification, in **Proceedings of the 12th Annual Conference on Genetic and Evolutionary Computation (GECCO '10)**, pp 1299-1306.
40. Xiang, G., Pendleton, B. A., Hong, J., Rosé, C. P. (2010). A Hierarchical Adaptive Probabilistic Approach for Zero Hour Phish Detection, in **Proceedings of the European Symposium on Research in Computer Security (ESORICS '10)**, pp 268-285
41. Rosé, C. P. & Kam, M. (2010). Internationalizing the Learning Sciences from Formal to Informal Learning Environments, in **Proceedings of the 9th International Conference of the Learning Sciences, Volume 2: Symposia**, pp 102-108
42. Ai, H., Sionti, M., Wang, Y. C., Rosé, C. P. (2010). Finding Transactive Contributions in Whole Group Classroom Discussions, in **Proceedings of the 9th International Conference of the Learning Sciences, Volume 1: Full Papers**, pp 976-983
43. Kumar, R. & Rosé, C. P. (2010). Engaging learning groups using Social Interaction Strategies, In **Proceedings of the 2010 Annual Conference of the North American Chapter of the Association for Computational Linguistics**, pp 677-680

44. Wang, Y. C. & Rosé, C. P. (2010). Making Conversation Structure Explicit: Identification of Initiation-response Pairs in Online Discussion, In **Proceedings of the 2010 Annual Conference of the North American Chapter of the Association for Computational Linguistics**, pp 673–676
45. Mayfield, E. & Rosé, C. P. (2010). An Interactive Tool for Supporting Error Analysis for Text Mining. In **Proceedings of the North American Chapter of the Association for Computational Linguistics, Demonstration Session**, pp 25-28.
46. Arora, S., Mayfield, E., Rosé, C. P., & Nyberg, E. (2010). Sentiment Classification using Automatically Extracted Subgraph Features, **Proceedings of the NAACL HLT 2010 Workshop on Computational Approaches to Analysis and Generation of Emotion in Text**, pp 131-139.
47. Ai, H., Kumar, R., Nguyen, D., Nagasunder, A., Rosé, C. P. (2010). Exploring the Effectiveness of Social Capabilities and Goal Alignment in Computer Supported Collaborative Learning, in **Proceedings of Intelligent Tutoring Systems, Lecture Notes in Computer Science Volume 6095**, pp 134-143.
48. Kumar, R., Ai, H., Beuth, J., Rosé, C. P. (2010). Socially-capable Conversational Tutors can be Effective in Collaborative Learning Situations, in **Proceedings of Intelligent Tutoring Systems, Lecture Notes in Computer Science Volume 6095**, pp 156-164.
49. Oberoi, S., Nguyen, D., Gweon, G., Finger, S., & Rosé, C. P. (2010). DesignWebs: A Tool for Automatic Construction of Interactive Conceptual Maps from Document Collections, in **Proceedings of Intelligent Tutoring Systems, Lecture Notes in Computer Science Volume 6095**, pp 387-389.
50. Howley, I. & Rosé, C. P. (2010). Student Dispositions and Help-Seeking in Collaborative Learning, in **Proceedings of Intelligent Tutoring Systems, Lecture Notes in Computer Science Volume 6095, Young Researcher's Track/Doctoral Consortium**, pp 230-232.
51. Nguyen, D., Mayfield, E., & Rosé, C. P. (2010). An analysis of perspectives in interactive settings, in **Proceedings of the KDD Workshop on Social Media Analytics**, pp 44-52.
52. Oberoi, S. V., Nguyen, D., Finger, S. and Rosé, C. P. (2010) Automatic extraction of Conceptual maps from design team documents, **Proceedings of the International Design and Design Education (DEC)**, Montreal, Canada, August 15-18, 2010.
53. Sionti, M., Lionardo, C., Markantonatou, S., Rosé, C. P., & Aloimonos, Y. (2010). Modeling the semantics of motion verbs based on sensorimotor measurements, **Proceedings of the joint conference of Conceptual Structure, Discourse and Language (CSDL) and Embodied and Situated Language Processing (ESLP)**, Brighton, England, UK. (poster presentation).
54. Beuth, J., Rosé, C. P., Kumar, R. (2010). Software Agent-Monitored Tutorials Enabling Collaborative Learning in Computer-Aided Design and Analysis, in **Proceedings of the ASME 2010 International Mechanical Engineering Congress & Exposition (IMECE2010)**, Vancouver, British Columbia, Canada.
55. Chaudhuri, S., Gupta, N., Smith, N. A., Rosé, C. P. (2009). Leveraging Structural Relations for Fluent Compressions at Multiple Compression Rates. **Proceedings of the ACL-IJCNLP 2009 Conference, Short Papers**, pp 101–104, Suntec, Singapore, 4 August 2009.
56. Joshi, M. & Rosé, C. P. (2009). Generalizing Dependency Features for Opinion Mining, **Proceedings of the ACL-IJCNLP 2009 Conference, Short Papers**, pp 313-316, Suntec, Singapore, 4 August 2009.
57. Gupta, N., Chaudhuri, S., Rosé, C. P. (2009). Evaluating the Syntactic Transformations in Gold Standard Corpora for Statistical Sentence Compression, **Proceedings of NAACL HLT 2009: Short Papers**, pp 145–148, Boulder, Colorado, June 2009.
58. Arora, S., Joshi, M., Rosé, C. P. (2009). Identifying Types of Claims in Online Customer Reviews, **Proceedings of NAACL HLT 2009: Short Papers**, pp 37-40, Boulder, Colorado, June 2009.

59. Kumar, R. & Rosé, C. P. (2009). Building Conversational Agents with Basilica, **Proceedings of NAACL HLT 2009: Demonstrations**, pp 5–8, Boulder, Colorado, June 2009.
60. Arora, S., Nyberg, E. H., Rosé, C. P. (2009). Estimating Annotation Cost for Active Learning in a Multi-Annotator Environment, **Proceedings of the NAACL Workshop on Active Learning for Natural Language Processing (ALNLP)**, pp 18-26.
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173. Rosé, C. P. (1997). **Robust Interactive Dialogue Interpretation** , Ph.D. Dissertation, School of Computer Science, Carnegie Mellon University.

SOFTWARE ARTIFACTS

Last Updated Apr 12, 2013

174. *The LCFlex* robust parser
175. *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
176. *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)*]
177. *TuTalk*, an authoring environment for tutorial dialogue agents
178. *LightSIDE: the Summarization Integrated Development Environment*, a general purpose development environment for building summarization systems [*4,004 downloads from 73 countries since February, 2008. Note that 706 of these downloads occurred when the google analytics download counter was not attached to the download link. This number of additional downloads was provided to us by the School of Computer Science Help Desk. 384 are from a download counter on a separate LightSIDE labs download page.*]
179. *Bazaar*, architecture for development of multi-agent dynamic support for collaborative learning

III. EVIDENCE OF EXTERNAL REPUTATION

CITATIONS AND AWARDS

- Language Technologies Institute Faculty Fellowship Award (Jr. Faculty Chair), July 2007-2009
- Semifinalist for the 2008 Elsevier Grand Challenge (14% acceptance rate)
- Winner of Honorable Mention Award at ACM SIG-CHI, 2006 & 2007
- Winner of Best Student Paper Award at Computer Supported Collaborative Learning (CSCL) 2011
- Winner of Best Poster Award at the Intelligent Tutoring Systems conference (ITS), 2006
- 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
- Nominated for Best Paper Award at the Intelligent Tutoring Systems conference (ITS), 2006
- Nominated for Best Paper Award at Computer Supported Collaborative Learning (CSCL), 2005
- 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

- 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'Éducation* 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

- 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

- Advisory Board Member, NSF/HCC, Modeling and Supporting Creativity During STEM learning activities, pending acceptance
- Advisory Board member, NSF/Cyberlearning funded SimBio/MIT project related to automated assessment
- 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=MXPFNp08fLNL7tUZgZJo9P23%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
- Advisory Board Member, Adaptive Teaching and Learning Systems - Adaptivity Mechanisms for Supporting Self-, Co- and Shared Regulation in Open Learning Arrangements, German Research Foundation (DFG) Priority Program (pending acceptance)
- Advisory Board Member, Computer-Supported Math Discourse Among Teachers and Students Center, Drexel University, NSF DRK-12 Program (grant started Summer 2011)
- 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

CONFERENCE AND WORKSHOP COMMITTEES

- Senior Program Committee for AIED 2013
- Advisory Committee for 2nd Workshop on Intelligent Support for Learning in Groups (AIED 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 Society of the Learning Sciences
 - **Secretary-Treasurer** (and *ex officio* member of the Board of Directors) 2008-2014
 - **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
 - Also serving as **Secretary-Treasurer of the CSCL community** (since Summer of 2010)
 - 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)
- The European Association for Research on Learning and Instruction (EARLI)
- The Association for Computational Linguistics
- The International Artificial Intelligence in Education Society
- Charter member of the International Educational Data Mining Society

EDITORIAL BOARD MEMBERSHIPS

- 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 since 2011) of the International Journal of Computer Supported Collaborative Learning, 2010-
- Editorial Board Member (Associate Editor) IEEE Transactions on Learning Technologies (invited as an NLP expert), 2013-
- Editorial Board Member of the International Journal of Artificial Intelligence in Education, 2013-

OTHER

- 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

V. EVIDENCE OF TEACHING PERFORMANCE

COURSES TAUGHT AT CARNEGIE MELLON

- **11-710 Computational Models of Discourse Analysis**
- **11-899 Summarization and Personal Information Management**
- **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 (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)**

VI. CONTRIBUTIONS TO EDUCATION

CURRICULUM DESIGN

- **11-718 Conversational Interfaces**
- **11-344 Machine Learning in Practice (05-834, 05-434)**
- **05-899 Special Topics: Computer Supported Collaborative Learning**
- **11-899 Summarization and Personal Information Management**
- **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)

OTHER

- 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 IIT 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)
- 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
- 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 (Now Researcher at BBN)

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

Gahgene Gweon (Now 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)

- 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)

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

CURRENT PHD STUDENTS

Iris Howley

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

Elijah Mayfield

- Year Entered: 2009, Siebel Scholar, IBM Fellowship Awardee
- Area of Study: Computational Sociolinguistics

Miaomiao Wen

- Year Entered: 2011
- Area of Study: Computational Sociolinguistics

Ryan Carlson (Co-advised with Ken Koedinger)

- Year Entered: 2011, PIER Fellowship Awardee
- Area of Study: Conversational Agents

Hye-Ju Jang

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

David Adamson (completed MLT Summer 2012, due to begin PhD in August 2013)

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

CURRENT MASTER OF LANGUAGE TECHNOLOGIES STUDENTS

Phani Gadde (Co-Advised with Lori Levin)

- Year Entered: 2011
- Area of Study: Code Switching

Zeyu Zheng

- Year Entered: 2011, Siebel Scholar
- Area of Study: Social Media Analysis. Domain adaptation

Abhimanyu Kumar

- Year Entered: 2012
- Area of Study: Social Media Analysis and Graphical Models

Mario Piergallini

- Year Entered: 2012
- Area of Study: Sociolinguistics

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 Spring 2008

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

Laurie Jones (PhD)

- Proposal in progress

Natasha Loghmanpour (PhD)

- Proposal in progress

OTHER

- **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 Supervised**
 - Benjamin Klixbull working on opinion mining from a marketing standpoint, co-advised with Kinshuk Jerath, August 2009 – May 2010
- **LTI Minor Project Advising**
 - Aditya Mukherji, working on an application related to reviewing local businesses, January 2011-May 2011
- **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 2013, working on social interpretation of code switching
- **Students from Abroad Hosted and/or Advised Remotely**
 - Christof Wecker from Frank Fischer's group at Ludwig-Maximilians 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 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, Linguistics PhD student from the University of Athens, visited me for 6 months to work on her dissertation starting in Summer 2009
- Abhishek Anand 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 and Ravi Shankar Reddy, 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 and Mikesh Udani 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 CSCS 2011, with Gahgene as first author, and won a best student paper award.
- Tushar Suresh 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 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 from NIT Rourkela was an intern in my group working on modeling dialect switching in Twitter in Summer 2012.
- **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)
- **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 TheFind.com)

- **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

- **Qualifying Exam Committee Member**

- Sharad Oberoi, CEE, Carnegie Mellon University
- Zan Wang, CEE, Carnegie Mellon University

- **Independent Studies Supervised**

- Gahgene Gweon (MHCI)
- Satanjeev Banerjee (LTI PhD)
- Chih-yu Chao (LTI Masters)
- Adele Weitz (Heinz undergrad)
- Stephanie Rosenthal (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

- Served on the Strategic Planning Committee for Education and the Student Experience under Indira Nair for the 2008 CMU reaccreditation
- Serving on the University Education Council for 2008-2014
 - Faculty Senate Representative for 2008-2009
 - Faculty Senate Representative for 2010-2011
- Served on the Faculty Senate Nominating Committee for 2009-2010
- Served on the University Libraries Advisory Committee for 2011-2012
- Serving on the Experience Design Network (Learning Media Research Group) 2013-
- 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
- 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.

SCHOOL AND DEPARTMENT SERVICE AND COMMITTEE WORK

- Organizing Committee Member, Home for Learning Sciences at CMU, Spring 2013 – Present
- LTI Education Committee Member (and Chair), Fall 2009 – Present
- HCII Hiring Committee (for joint HCII-ETC position), Fall 2012/Spring 2013
- 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
- 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
- Organizer of 2007 and 2008 LTI Student Research Symposium
 - Offering “behind the scenes” support for the 2009, 2010, 2011 and 2012 Student Research Symposiums

OTHER

- 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-Present
- 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