

Interests

Language understanding, conversational dialog systems, machine learning, neural networks, text processing, representation learning: the common denominator being the development of innovative algorithms targeted for real applications. I am passionate about turning research ideas to product using a pragmatic, applied R&D approach.

Employment

Microsoft October 2010 - currently
Senior Research Scientist
Main focus areas include Understanding Conversational Dialog, Machine Learning for Language Processing, domain scaling, information extraction, representation learning.

University of California, Berkeley Sept. 2008-October 2010
Postdoctoral Research Employee
Work on Question Answering, Textual Entailment, Coreference Resolution, and Topic Models for Multi-Document Summarization

University of Toronto Sept. 2003 - Sept. 2008
Research Assistant
Work on Software Risk Analysis, Credit Worthiness Analysis, Ontology Engineering

Information Intelligence Co. Sept. 2002 - Sept. 2004
Machine Learning & Data Scientist
Work on Building Data Mining and Machine Learning Software

Ford Motor Company Sept. 1997 - May. 1999
Data Scientist
Work on Statistical Process Control Project

Education

University of California, Berkeley May 2008 - October 2010
Post-Doctorate Research Degree in Computer Science
Research Topic: Question Answering, Textual Entailment and Multi-Document Summarization

University of Toronto, Toronto, Canada May 2005 - May 2008
Ph.D. in Information Science, Department of Engineering
Research Topic: Uncertainty Modeling with Evolutionary Functions

University of Toronto, Toronto, Canada January 2003 - May 2005
Master of Applied Science in Information Science
Research Topic: Ontology Engineering, Applications of Soft Computing

Seneca Collage, Toronto, Canada January 2000 - May 2002
Computer Programming and Analysis in Information Science
Research Topic: Enterprise Web Applications

Istanbul Technical University, Istanbul, Turkey
Bachelor of Applied Science, Industrial Engineering
Research Topic: Multi-objective Decision Making

September 1993 - June 1997

Recent Projects @ Microsoft

Bing Deep Conversational Understanding

- Scaling intent detection to cover Bing's hundreds of domains using deep learning models, specifically end-to-end learning with bidirectional LSTMs
- Representation learning for coldstart language and query understanding
- Boosting query entity tagging with attention based LSTM models using memory networks.
- Pre-training models for Language Understanding to learn representation of utterances.

Cortana Personal Assistant System

- Enriching Spoken Language Understanding Models by Automatically Learning Representations from Big-Data and Knowledge Graph
- Flexible item selection for targeted human to computer dialog systems using machine learning.
- Eye gaze for spoken language understanding in multi-model conversational interactions
- New intent detection for Cortana personal assistant scenarios
- Easy dialog state update model for multi-domain dialog systems
- Joint models for spoken language understanding in dialog systems
- Natural language query detection
- Sentiment analysis in user utterances and short conversations

Conference Proceedings

1. *Context Memory Networks for Multi-Objective Semantic Parsing in Conversational Understanding*, Asli Celikyilmaz, Dilek Hakkani-Tur, Gokhan Tur, Yun-Nung Vivian Chen (working paper) - 2016
2. *A New Pre-training Method for Training Deep Learning Models with Application to Spoken Language Understanding*, Asli Celikyilmaz, Ruhi Sarikaya, Dilek Hakkani-Tur, Xiaohu Liu, Nikhil Ramesh, Gokhan Tur (**IS-2016**) Proc. of the 17th Annual Meeting of the International Speech Communication Association, July 21, 2016.
3. *Task Completion Platform: A self-serve multi-domain goal oriented dialogue platform*. Paul A. Crook, Alex Marin, Asli Celikyilmaz, Omar Zia Khan, Young-Bum Kim, Ruhi Sarikaya, in (**NAACL-2016**), July 16, 2016.
4. *Multi-domain Joint Semantic Frame Parsing using Bi-Directional RNN-LSTM*, Dilek Hakkani-Tur, Gokhan Tur, Asli Celikyilmaz, Yun-Nung Vivian Chen, Jiangeng Gao, Li Deng, Ye-Yi Wang, In Proc. of the 17th Annual Meeting of the International Speech Communication Association (**IS-2016**)
5. *Natural Language Understanding for Partial Queries*, Xiaohu Li, Asli Celikyilmaz, Ruhi Sarikaya, IEEE, Institute of Electrical and Electronics Engineers, December 1, 2015.
6. *Convolutional Neural Network Based Semantic Tagging with Entity Embeddings*, Asli Celikyilmaz, Dilek Hakkani-Tur, NIPS Workshop on Machine Learning for SLU and Interaction, December 1, 2015 (**NIPS 2015**).
7. *Investigation of ensemble models for sequence learning*, Asli Celikyilmaz, Dilek Hakkani-Tur, In ICASSP, IEEE-Institute of Electrical and Electronics Engineers, (**ICASSP-2015**), April 1, 2015.

8. *Enriching Word Embeddings Using Knowledge Graph for Semantic Tagging in Conversational Dialog Systems*. Asli Celikyilmaz, Dilek Hakkani-Tur, Panupong Pasupat and Ruhi Sarikaya. **(AAAI-2015)** Spring Symposium on "Knowledge Representation and Reasoning: Integrating Symbolic and Distributional Approaches, Stanford, CA, 2015.
9. *A Toolkit for Building Conversational Understanding Models using Semantic Graphs (Demo)* Dilek Hakkani-Tur, Asli Celikyilmaz and Geoff Zweig, **(SLT-2014)** Spoken Language Technologies Workshop, Lake Tahoe, December 2014.
10. *Resolving Referring Expressions in Conversational Dialogs for Natural User Interfaces*. Asli Celikyilmaz, Zhaleh Feizollahi, Dilek Hakkani-Tur and Ruhi Sarikaya. Empirical Methods in Natural Language Processing **(EMNLP-14)**, Duha, Qatar, October, 2014.
11. *Eye Gaze for Spoken Language Understanding in Multi-Model Conversational Interactions*. Dilek Hakkani-Tur, Malcolm Slaney, Asli Celikyilmaz, Larry Heck. Int. Conference on Multimodal Interaction **(ICMI-14)**, Istanbul, Turkey, November 2014.
12. *No Evidence Left Behind: Understanding Semantics in Dialogs using Relational Evidence Based Learning*. Asli Celikyilmaz, Dilek Hakkani-Tur and Minwoo Jeong. Practice of Machine Learning Conference **(PMLC'14)**, Microsoft Internal, Redmond Campus, October 2014.
13. *A Variational Bayesian Model for User Intent Detection*. Yangfeng Ji, Dilek Hakkani-Tur, Asli Celikyilmaz, Larry Heck, Gokhan Tur. IEEE The 39th Int. Conf. on Acoustics, Speech, and Signal Processing **(ICASSP '14)**, May 2014.
14. *Semi-Supervised Semantic Tagging for Conversational Understanding Using Markov Topic Regression*. Asli Celikyilmaz, Dilek Hakkani-Tur, Gokhan Tur, Ruhi Sarikaya. Proc of the 51st Annual Meeting of the Association for Computational Linguistic **(ACL '13)**, Sofia, Bulgaria, August 2013.
15. *Learning to Relate Literal and Sentimental Descriptions of Visual Properties*. Mark Yatskar, Svitlana Volkova, Asli Celikyilmaz, Bill Dolan, Luke Zettlemoyer. 2013 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies **(NAACL-HLT '13)**, Atlanta, USA, June 2013.
16. *IsNL? A Discriminative Approach to Detect Natural Language Like Queries for Conversational Understanding*. Asli Celikyilmaz, Gokhan Tur, Dilek Hakkani-Tur. 14th Annual Conf. of the Intern. Speech Communication Association **(IS '13)**, Lyon, France, August, 2013.
17. *Discovering New User Intents from Search Query Logs for Spoken Language Understanding*. Dilek Hakkani-Tur, Asli Celikyilmaz, Larry Heck, Gokhan Tur. 14th Annual Conference of the Intern. Speech Communication Association **(IS '13)**, Lyon, France, August, 2013.
18. *Easy Contextual Intent Prediction and Slot Detection*. Aditya Bhargava, Asli Celikyilmaz, Dilek Hakkani-Tur, Ruhi Sarikaya. IEEE The 38th Int. Conf. on Acoustics, Speech, and Signal Processing **(ICASSP '13)**, Vancouver, Canada, May 2013.
19. *Latent Semantic Modeling for Slot Filling in Conversational Understanding*. Gokhan Tur, Asli Celikyilmaz, Dilek Hakkani-Tur. IEEE The 38th Int. Conf. on Acoustics, Speech, and Signal Processing **(ICASSP '13)**, Vancouver, Canada, May 2013.
20. *Weakly Supervised Approach for Building Conversational Interaction System*. Dilek Hakkani-Tur, Asli Celikyilmaz, Gokhan Tur, Larry Heck. Proceedings of Microsoft Research Machine Learning Summit **(MSR-ML-SUMMIT '13)**, Demo Track, Paris, France, April 22-14 201
21. *A Joint Model for Discovery of Aspects in Utterances*. Asli Celikyilmaz, Dilek Hakkani-Tur. 49th Annual Meeting of the Association for Computational Linguistics **(ACL '12)**, Jeju, South Korea, June, 2012.
22. *Mining Search Query Logs for Spoken Language Understanding*. Dilek Hakkani-Tur, Gokhan Tur, Asli Celikyilmaz. North American Chapter of the Association for Computational Linguistics: Human Language Technologies **(NAACL-HLT '12)** Workshop on Future Directions and Needs in the Spoken Dialog Community: Tools and Data. Montreal, Canada, 2012.

23. *A Discriminative Classification-Based Approach to Information State Updates for a Multi-Domain Dialog System*. Dilek Hakkani-Tür, Gokhan Tür, Larry Heck, Ashley Fidler, Asli Celikyilmaz. 13th Annual Conference of the International Speech Communication Association (**IS'12**), Portland, OR, September, 2012.
24. *Statistical Semantic Interpretation Modeling for Spoken Language Understanding with Enriched Semantic Features*. Asli Celikyilmaz, Dilek Hakkani-Tür, Gokhan Tür. IEEE Workshop on Spoken Language Technologies (**SLT '12**), Miami, FL, 2012.
25. *Leveraging Web Query Logs to Learn User Intent via Bayesian Latent Variable Model*. Asli Celikyilmaz, Dilek Hakkani-Tur, Gokhan Tur. Int. Conf. of Machine Learning (**ICML '11**) Workshop on Combining Learning Strategies to Reduce Label Cost, Bellevue, Washington. July, 2011.
26. *Discovery of Topically Coherent Sentences for Extractive Summarization*. Asli Celikyilmaz, Dilek Hakkani-Tur. The 49th Association for Computational Linguistics (**ACL '11**), Portland, Oregon. June 2011.
27. *Exploiting Distance Based Similarity in Topic Models for User Intent Detection*. Asli Celikyilmaz, Dilek Hakkani-Tur, Gokhan Tur, Ashley Fidler, Dustin Hillard, in 12th Biannual IEEE Workshop on Automatic Speech Recognition and Understanding (**ASRU '11**), Waikoloa, HI, December, 2011.
28. *Employing Web Search Query Click Logs for Multi-Domain Spoken Language Understanding*. Dilek Hakkani-Tür, Gokhan Tur, Larry Heck, Asli Celikyilmaz, Ashley Fidler, Dustin Hillard, Rukmini Iyer, S. Parthasarathy. 12th Biannual IEEE Workshop on Automatic Speech Recognition and Understanding (**ASRU '11**), Waikoloa, HI, December, 2011.
29. *Multi-Domain Spoken Language Understanding with Approximate Inference*, Asli Celikyilmaz, Dilek Hakkani-Tür, Gokhan Tur, in 12th Annual Conference of the International Speech Communication Association (**IS '11**), Florence, Italy, August, 2011.
30. *Learning Weighted Entity Lists from Web Click Logs for Spoken Language Understanding*. Dustin Hillard, Asli Celikyilmaz, Dilek Hakkani-Tür, Gokhan Tur, in 12th Annual Conf. of the Intern. Speech Communication Association (**IS '11**), Florence, Italy, August 2011.
31. *Towards Unsupervised Spoken Language Understanding: Exploiting Query Click Logs for Slot Filling*. Gokhan Tur, Dilek Hakkani-Tür, Dustin Hillard, Asli Celikyilmaz, in 12th Annual Conference of the International Speech Communication Association (**IS '11**), Florence, Italy, August, 2011.
32. *Concept-based Classification for Multi-Document Summarization*. Asli Celikyilmaz, Dilek Hakkani-Tür. IEEE 36th Int. Conf. on Acoustics, Speech and Signal Processing (**ICASSP '11**), Prague, Czech Republic, May 2011.
33. *The Actor-Topic Model for Extracting Social Networks in Luterary Narrative*. Asli Celikyilmaz, Dilek Hakkani-Tur, Hua He, Grzegorz Kondrak, Denilson Barbosa. Neural Information Processing Systems (**NIPS '10**) in Machine Learning for Social Computing Workshop, Whistler, Canada, 2010.
34. *A Hybrid Hierarchical Model for Multi-Document Summarization*. Asli Celikyilmaz, Dilek Hakkani-Tür. The 48th Association for Computational Linguistics (**ACL '10**), Uppsala, Sweden, July, 2010.
35. *LDA Based Similarity Modeling for Question Answering*, Asli Celikyilmaz, Dilek Hakkani-Tür, and Gokhan Tur, in Proceedings of the 2013 Conf. of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT '10**). Workshop on Semantic Search, Los Angeles, CA, June 2010.
36. *A Graph-Based Semi-Supervised Learning for Question Semantic Labeling*. Asli Celikyilmaz, Dilek Hakkani-Tür. in Proceedings of the 2013 Conference of the North American Chapter of the

- Association for Computational Linguistics: Human Language Technologies (**NAACL-HLT '10**) Workshop on Semantic Search, Los Angeles, CA, June 2010.
37. *Semantic Question Answering System with Topic Models*. Asli Celikyilmaz. Neural Information Processing Systems (**NIPS '10**) - Workshop on Applications of Topic Models : Text and Beyond, Whistler, Canada, December, 2010.
 38. *Extractive Summarization using A Latent Variable Model*. Asli Celikyilmaz, Dilek Hakkani-Tür. 11th Annual Conference of the International Speech Communication Association (**IS '10**), Makuhari, Japan, September, 2010.
 39. *Probabilistic Model-Based Sentiment Analysis of Twitter Messages*. Asli Celikyilmaz, Dilek Hakkani-Tür, Junlan Feng. IEEE Workshop on Spoken Language Technologies (**SLT '10**), Berkeley, CA, December 2010.
 40. *A Graph-based Semi-Supervised Learning for Question Answering*. Asli Celikyilmaz, Marcus Thint, Zhiheng Huang. The 48th Association for Computational Linguistics (**ACL '09**), August 2009, Singapore.
 41. *Investigation of Question Classifier in Question Answering*. Zhiheng Huang, Marcus Thint, Asli Celikyilmaz, in the Conf. on Empirical Methods in Natural Language Processing (**EMNLP '09**), August 2009, Singapore.
 42. *Accurate Semantic Class Classifier for Coreference Resolution*. Zhiheng Huang, Guangping Zeng, W. Xu, Asli Celikyilmaz. The Conference on Empirical Methods in Natural Language Processing (**EMNLP '09**), August 2009, Singapore.
 43. *Soft-Link Spectral Clustering for Information Extraction*. Asli Celikyilmaz, Third IEEE Int. Conf. on Semantic Computing (**ICSC '09**), 14-16 September 2009, Berkeley, CA. Winner of Best Paper Award.
 44. *Graph-Based Semi-Supervised Learning for Learning Semantic Relations from Text*. Asli Celikyilmaz. Neural Information Processing Systems (**NIPS '09**) in Women in Machine Learning Workshop, Vancouver, Canada, 2009.
 45. *Spectral Learning with Type-2 Fuzzy Numbers for Question/Answering System*. Asli Celikyilmaz, I. Burhan Turksen. (**IFSA 2009**) World Congress EUSFLAT Conference, 2009.
 46. *Kernel Based Hybrid Fuzzy Clustering for Non-Linear Fuzzy Classifiers*. Asli Celikyilmaz, I. Burhan Turksen. Int. Conf. on North American Fuzzy Information Processing Society, (**NAFIPS '09**) Cincinnati, OH, June 14-17 2009.
 47. *Semantic Approach to Text Entailment for Question Answering*. Asli Celikyilmaz, Marcus Thint. IEEE Intern. Conf. on Cognitive Informatics (**ICCI '08**), Stanford, CA, August 2008.
 48. *Type-2 Fuzzy Classifier Ensembles for Text Entailment*. Asli Celikyilmaz, I. Burhan Turksen. Joint Conference on Information Sciences (**JCIS '08**), Shenzhen, China, December 15-20 2008.
 49. *Uncertainty Bounds of Fuzzy C-Regression Method*. Asli Celikyilmaz, I. Burhan Turksen. IEEE Int. Conference on Fuzzy Systems-World Congress on Computational Intelligence. (**WCCI '08**), Hongkong, June 1-6, 2008.
 50. *Genetic Type-2 Fuzzy Classifier Functions*. Asli Celikyilmaz, I. Burhan Turksen. Int. Conf. of North American Fuzzy Information Processing Society Annual Conference (**NAFIPS '08**), New York, USA, May 19-22, 2008.
 51. *A Type-2 Fuzzy C-regression Method*. Asli Celikyilmaz, I. Burhan Turksen. Int. Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (**IPMU '08**), Malaga, Spain, June 22-27, 2008.
 52. *A New Classifier Design with Fuzzy Functions*. Asli Celikyilmaz, I. Burhan Turksen. Int. Conf. on Rough Sets and Knowledge Technology (**RSKT '07**), Toronto, Canada, 2007.

53. *Evolution of Fuzzy System Models: An Overview and New Directions*. Asli Celikyilmaz, I. Burhan Turksen. Int. Conf. on Rough Sets and Knowledge Technology (**RSKT '07**), Toronto, Canada, 2007.
54. *Type 2 Fuzzy System Models with Improved Fuzzy Functions*. Asli Celikyilmaz, I. Burhan Turksen. Int. Conf. of North American Fuzzy Information Processing Society (**NAFIPS '07**) Winner of Best Student Paper Award.
55. *Evolutionary Fuzzy System Models with Improved Fuzzy Functions and Its Application to Industrial Process*. Asli Celikyilmaz, I. Burhan Turksen. IEEE Int. Conf. on Systems, Man, Cybernetics (**IEEE-SMC '07**), Montreal, Canada, 2007.
56. *Improved Interval Valued Fuzzy Reasoning with Evolutionary Computing*. Asli Celikyilmaz, I. Burhan Turksen. Int. Conf. on Fuzzy Theory & Technology (**JCIS '07**), Salt Lake City, Utah, July 2007.
57. *A New Cluster Validity Index with Fuzzy Functions*. Asli Celikyilmaz and I. Burhan Turksen. Proc. of International Fuzzy Systems Association (**IFSA '07**)- World Congress EUSFLAT Conference, Cancun, Mexico, July 2007.

Journal Proceedings

58. *Decision Making With Imprecise Parameters*, Asli Celikyilmaz, I. Burhan Turksen. International Journal of Approximate Reasoning (IJAR) Invited Paper, 2010.
59. *A Soft Link Spectral Model for Link Prediction*. Asli Celikyilmaz, International Journal of Semantic Computing (IJSC) 3:4 2009.
60. *Increasing Accuracy of Two Class Pattern Recognition with Improved Fuzzy Functions* Asli Celikyilmaz, I. Burhan Turksen. Expert Systems with Applications, 36, 2009.
61. *Genetic Fuzzy System Based on Improved Fuzzy Functions* Asli Celikyilmaz, I. Burhan Turksen. Journal of Computers 4:2 2009.
62. *Validation Criteria for Enhanced Fuzzy Clustering*, Asli Celikyilmaz, I. Burhan Turksen, Pattern Recognition Letters 29, 2008.
63. *Uncertainty modeling with evolutionary improved fuzzy functions approach* Asli Celikyilmaz, I. Burhan Turksen, IEEE Systems, Man, and Cybernetics- Part B 38:4 2008.
64. *Enhanced Fuzzy System Models with Improved Fuzzy Clustering Algorithm* Asli Celikyilmaz, I. Burhan Turksen IEEE Transactions on Fuzzy Systems 16:3 2008.
65. *Fuzzy Functions with Support Vector Machines*, Asli Celikyilmaz, I. Burhan Turksen Information Sciences, 177 2007.
66. *Comparison of Fuzzy Functions with Fuzzy Rule Bases*, Asli Celikyilmaz, I. Burhan Turksen, International Journal of Fuzzy Systems, 8:3 2006.

Other Proceedings

67. *An Overview of Speech and Related Papers @ACL 2012* Asli Celikyilmaz, In the Proceedings of IEEE Spoken Language Technologies (SLT) Newsletter, 2012.
68. *Information Extraction From Text - Dealing With Imprecise Data*, Asli Celikyilmaz, I. Burhan Turksen, INTECH 2010 - Book Chapter.
69. *Modeling Uncertainty with Fuzzy Logic: With Recent Theory and Applications* Asli Celikyilmaz, I. Burhan Turksen. Springer Book 2009.

Invited Talks

- Intelligent Personal Assistants and Signal Processing Challenges, IEEE Signal Processing Society Santa Clara Valley Chapter, November, 2014.
- Natural Language Understanding, Machine Learning Summer School, UC Santa Cruz, 2012.
- Conversational Understanding, BISC Lab in Computer Science, UC Berkeley, 2011.
- Question Answering Made Easy, International Computer Science Institute, Berkeley, 2010.
- Question Answering Effort in BISC Lab IEEE Int. Conf. Semantic Computing, Stanford, CA, 2009.

Honors and Awards

- Best Paper Award, IEEE Int. Conference on Semantic Computing, Berkeley, 2009.
- Postdoctoral Fellowship from British Telecom University of California, Berkeley, 2008-2010.
- NSERC - Natural Science and Engineering Research Council of Canada, Postdoctoral Fellowship (PDF), 2008-2010.
- NSERC - Natural Science and Engineering Research Council, Graduate Scholarships and Fellowships, PGSD2, 2007-2009.
- OGS-Ontario Graduate Scholarships in Science and Technology, Ph.D., 2007-2008.
- Ph.D. Fellowship, University of Toronto, 2005-2008.
- Student Travel Grant from IEEE Computational Intelligence Society, 2007.
- Best Paper Award, North American Fuzzy Information Processing Society, 2007.
- Ontario, Canada Graduate Scholarship in Science and Technology (OGS-ST), 2006-2007.
- Research Assistantship Support, University of Toronto, 2005-2006.
- Master of Science Fellowship, University of Toronto, 2004-2005.
- Research Assistantship Support, University of Toronto, 2004-2005
- Full Grant for Undergraduate Study, ISTEK Foundation (Istanbul, Turkey), 1993-1997.

Interns Mentored

- Joo-Kyung Kim (Ohio State University), Intent Classification using Semantically Enriched Word Embeddings, MSR Intership, 2016.
- Young-Bum Kim (U of Wisconsin), Task Dependent Word Embeddings for Slot Filling in Conversational Understanding, MSR Internship, 2013.
- Yangfeng Ji (Georgia Tech), Latent Variable Models of Intent Detection, 2013.
- Aditya Bhargava (U of Toronto), Easy Context Analysis for Conversational Dialog, 2012.
- Svitlana Volkova (JHU), Sentiment Analysis in Conversational Text, 2011.

Teaching Experience

- Teaching Assistant for “Knowledge Modeling and Management”, University of Toronto, 2007.
- Teaching Assistant for “Data Modeling”, University of Toronto, 2006.
- Teaching Assistant for “Decision Analysis”, University of Toronto, 2005.
- Teaching Assistantship Training Program, a year long peer-training certification program, 2006.
- Supervised 2 Undergraduate Students, University of Toronto, 2005-2006.
- Teaching Assistant for “Database Design and Modeling with Oracle”, Seneca College, 2001.

Professional Activities

- NIPS 2015 Workshop organizer : SLU and Interaction 1 day workshop.
- Local Chair of Spoken Language Technologies, SLT 2014.
- Area Chair for Dialog and Interactive Systems at ACL 2014, NAACL 2016
- Co-Chair for the NAFIPS Soft Computing Conference in Berkeley, CA, 2012
- Program Committee member for:
 - Association of Computational Linguistics (ACL) 2012-2014
 - Special Interest Group on Discourse and Dialog (SIGDIAL) 2014
 - Int. Conf. on Computational Linguistics (COLING) 2014
 - Association of Computational Linguistics Student Research Workshop (ACL-SRW) 2014
 - Neural Information Processing Systems (NIPS) 2012-2013
 - Annual Conf. of the Int. Speech Communication Association (InterSpeech) 2010-2013
 - IEEE Int. Conf. on Acoustics, Speech and Signal Processing (ICASSP) 2012-2013
 - IEEE Workshop on Spoken Language Technology, 2010-2014
 - Int. Conf. on Semantic Computing (ISCS) 2010-2013
 - ACL Student Research Workshop and Mentorship 2013-2014.

Languages

Native Speaker of Turkish, Fluent in English.