

Yun-Nung (Vivian) Chen

ASSISTANT PROFESSOR · NATIONAL TAIWAN UNIVERSITY

Taipei, Taiwan

☎ (+886) 2-3366-4888#418 | ✉ y.v.chen@ieee.org | 🏠 vivianchen.idv.tw | 📱 yvchen | 📧 vivianynchen

Education

Carnegie Mellon University (CMU)

Pittsburgh, PA

M.S. & PH.D. IN COMPUTER SCIENCE – LANGUAGE AND INFORMATION TECHNOLOGIES

2011 - 2015

- GPA: 3.92/4.0; Received Graduate Research Fellowships.

National Taiwan University (NTU)

Taipei, Taiwan

B.S. & M.S. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

2005 - 2011

- GPA: 4.0/4.0; Graduated with College Honors and received five Presidential Awards.

Honors & Awards

RESEARCH

- 2018 **MOST Young Scholar Fellowship**, Ministry Science and Technology *Taiwan*
- 2017 **NVIDIA GTC 2017 Best Scientific Research Award**, NVIDIA *San Jose, CA*
- 2017 **Google Faculty Research Awards 2016**, Google Research *Mountain View, CA*
- 2013 **Best Student Paper Award**, IEEE ASRU 2013 [1/ 170; < 0.6%] *Olomouc, Czech*
- 2013 **Best Poster Award**, CMU LTI SRS 2013 *Pittsburgh, PA*
- 2012 **Best Student Paper Shortlist**, ISCA INTERSPEECH 2012 [10/ 1300; < 0.8%] *Portland, OR*
- 2010 **Best Student Paper Award**, IEEE SLT 2010 [2/ 150; < 2%] *Berkeley, CA*
- 2011 **ACLCLP Thesis Award**, ACLCLP *Taipei, Taiwan*

ACADEMIC

- 2011 **Phi Tau Phi Award**, Member of the Phi Tau Phi Scholastic Honor Society *Taipei, Taiwan*
- 2010 **Excellent Teaching Assistant Award**, NTU CSIE Dept. *Taipei, Taiwan*
- 2006–2009 **Presidential Award**, NTU CSIE Dept. (Spring'07, Fall'07, Spring'08, Fall'08, Spring'09) *Taipei, Taiwan*
- 2008 **Connected Life Special Prize**, Yahoo! 2008 Open Hack Day [1/42; <0.1%] *Taipei, Taiwan*

SCHOLARSHIP

- 2013 **MOE Technologies Incubation Scholarship**, Ministry of Education *Taiwan*
- 2013 **Government Scholarship for Studying Abroad**, Ministry of Education *Taiwan*
- 2013 **The US Google Anita Borg Memorial Scholarship Finalist**, Google Inc. *U.S.A.*
- 2009–2011 **Advanced Speech Technologies Scholarship**, NTU EECS *Taipei, Taiwan*
- 2011–2015 **Graduate Research Fellowship**, CMU *Pittsburgh, U.S.A.*
- 2008 **Pen Wen Yuan Scholarship**, NTU EECS *Taipei, Taiwan*

Experience

National Taiwan University, Dept. Computer Science & Information Engineering

Taipei, Taiwan

ASSISTANT PROFESSOR / LEAD MACHINE INTELLIGENCE & UNDERSTANDING LABORATORY

Aug. 2016 - Present

- Multi-sense word representation: [3], [12]
- Deep dialogue policy learning: [5], [6], [13]
- Deep dialogue modeling: [4], [8]–[10], [15]
- Deep language generation: [7], [14]

Microsoft Research, Deep Learning Technology Center

Redmond, U.S.A.

POSTDOCTORAL RESEARCHER

Feb. 2016 - Aug. 2016

- Deep conversation understanding: [17], [1], [18], [20]
- Deep dialogue modeling: [5], [11]

Carnegie Mellon University, School of Computer Science

GRADUATE RESEARCH ASSISTANT

- Spoken language understanding: [19], [21], [23]–[26], [28], [30]
- Multi-party speech summarization: [29], [33], [34]
- Brain-enabled multimodal speech application: [31]

Pittsburgh, U.S.A.

Aug. 2011 - Jan. 2016

Microsoft Research, Speech & Dialog Research Group

RESEARCH INTERN

- Intent modeling & understanding: [16], [22]
- Unsupervised relation detection: [27]

Mountain View, U.S.A

Summer 2014 & Summer 2015

National Taiwan University, Digital Speech Processing Laboratory

GRADUATE RESEARCH ASSISTANT

- Key term extraction: [2], [32], [37]
- Speech summarization: [36]
- Spoken term detection: [35]

Taipei, Taiwan

Jul. 2009 - Aug. 2011

Selected Publications

Journal Articles

- [1] Y.-N. Chen, D. Hakkani-Tur, G. Tur, A. Celikyilmaz, J. Gao, and L. Deng, "Knowledge as a teacher: Knowledge-guided structural attention networks," *ArXiv preprint arXiv:1609.03286*, 2016.
- [2] H.-Y. Lee, S.-R. Shiang, C.-F. Yeh, Y.-N. Chen, Y. Huang, S.-Y. Kong, and L. shan Lee, "Spoken knowledge organization by semantic structuring and a prototype course lecture system for personalized learning," *IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP)*, vol. 22, no. 5, pp. 883–898, 2014.

Peer-Reviewed Conference Papers

- [3] T.-C. Chi and Y.-N. Chen, "Cluse: Cross-lingual underspervised sense embeddings," in *Proceedings of The 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Oct. 2018.
- [4] C.-W. Goo, G. Gao, Y.-K. Hsu, C.-L. Huo, T.-C. Chen, K.-W. Hsu, and Y.-N. Chen, "Slot-gated modeling for joint slot filling and intent prediction," in *Proceedings of 2018 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT)*, Jun. 2018.
- [5] B. Peng, X. Li, J. Gao, J. Liu, Y.-N. Chen, and K.-F. Wong, "Adversarial advantage actor-critic model for task-completion dialogue policy learning," in *Proceedings of The 43rd IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Apr. 2018.
- [6] S.-Y. Su, X. Li, J. Gao, J. Liu, and Y.-N. Chen, "Discriminative deep dyna-q: Robust planning for dialogue policy learning," in *Proceedings of The 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Oct. 2018.
- [7] S.-Y. Su, K.-L. Lo, Y.-T. Yeh, and Y.-N. Chen, "Natural language generation by hierarchical decoding with linguistic patterns," in *Proceedings of 2018 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT)*, Jun. 2018.
- [8] S.-Y. Su, P.-C. Yuan, and Y.-N. Chen, "How time matters: Learning time-decay attention for contextual spoken language understanding in dialogues," in *Proceedings of 2018 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT)*, Jun. 2018.
- [9] P.-C. Chen, T.-C. Chi, S.-Y. Su, and Y.-N. Chen, "Dynamic time-aware attention to speaker roles and contexts for spoken language understanding," in *Proceedings of 2017 IEEE Workshop on Automatic Speech Recognition and Understanding (ASRU)*, Dec. 2017.
- [10] T.-C. Chi, P.-C. Chen, S.-Y. Su, and Y.-N. Chen, "Speaker role contextual modeling for language understanding and dialogue policy learning," in *Proceedings of The 8th International Joint Conference on Natural Language Processing (IJCNLP)*, Nov. 2017.
- [11] B. Dhingra, L. Li, X. Li, J. Gao, Y.-N. Chen, F. Ahmed, and L. Deng, "Toward end-to-end reinforcement learning of dialogue agents for information access," in *Proceedings of The 55th Annual Meeting of the Association for Computational Linguistics (ACL)*, Jul. 2017.
- [12] G.-H. Lee and Y.-N. Chen, "MUSE: Modularizing unsupervised sense embeddings," in *Proceedings of The 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Sep. 2017, pp. 327–337.
- [13] X. Li, Y.-N. Chen, L. Li, J. Gao, and A. Celikyilmaz, "End-to-end task-completion neural dialogue systems," in *Proceedings of The 8th International Joint Conference on Natural Language Processing (IJCNLP)*, Nov. 2017.
- [14] B. R. Lu, F. Shyu, Y.-N. Chen, H.-Y. Lee, and L.-S. Lee, "Order-preserving abstractive summarization for spoken content based on connectionist temporal classification," in *Proc. of 18th Annual Conference of the International Speech Communication Association (INTERSPEECH)*, ISCA, Aug. 2017.
- [15] X. Yang, Y.-N. Chen, D. Hakkani-Tur, P. Crook, X. Li, J. Gao, and L. Deng, "End-to-end joint learning of natural language understanding and dialogue manager," in *Proc. of Proceedings of The 42nd IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, IEEE, Mar. 2017.
- [16] Y.-N. Chen, D. Hakkani-Tür, and X. He, "Zero-shot learning of intent embeddings for expansion by convolutional deep structured semantic models," in *Proc. of The 41st IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, IEEE, Mar. 2016.

- [17] Y.-N. Chen, D. Hakkani-Tür, G. Tur, J. Gao, and D. Li, "End-to-end memory networks with knowledge carryover for multi-turn spoken language understanding," in *Proc. of The 17th Annual Meeting of the International Speech Communication Association (INTERSPEECH)*, Sep. 2016.
- [18] Y.-N. Chen, D. Hakkani-Tür, G. Tur, A. Celikyilmaz, J. Gao, and L. Deng, "Syntax or semantics? knowledge-guided joint semantic frame parsing," in *Proc. of 2016 IEEE Spoken Language Technology Workshop (SLT)*, IEEE, Dec. 2016.
- [19] Y.-N. Chen, M. Sun, A. I. Rudnicky, and A. Gershman, "Unsupervised user intent modeling by feature-enriched matrix factorization," in *Proc. of The 41st IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, IEEE, Mar. 2016.
- [20] D. Hakkani-Tur, G. Tur, A. Celikyilmaz, Y.-N. Chen, J. Gao, L. Deng, and Y.-Y. Wang, "Multi-domain joint semantic frame parsing using bi-directional RNN-LSTM," in *Proc. of 17th Annual Conference of the International Speech Communication Association (INTERSPEECH)*, ISCA, Sep. 2016.
- [21] M. Sun, Y.-N. Chen, and A. I. Rudnicky, "An intelligent assistant for high-level task understanding," in *Proc. of the 21st Annual Meeting of the Intelligent Interfaces Community (IUI)*, ACM, Mar. 2016.
- [22] Y.-N. Chen, D. Hakkani-Tür, and X. He, "Detecting actionable items in meetings by convolutional deep structured semantic models," in *Proc. of 2015 IEEE Workshop on Automatic Speech Recognition and Understanding (ASRU)*, IEEE, Dec. 2015, pp. 375–382.
- [23] Y.-N. Chen, M. Sun, A. I. Rudnicky, and A. Gershman, "Leveraging behavioral patterns of mobile applications for personalized spoken language understanding," in *Proc. of The 17th ACM International Conference on Multimodal Interaction (ICMI)*, ACM, Nov. 2015, pp. 83–86.
- [24] Y.-N. Chen, W. Y. Wang, A. Gershman, and A. I. Rudnicky, "Matrix factorization with knowledge graph propagation for unsupervised spoken language understanding," in *Proc. of the 53rd Annual Meeting of the Association for Computational Linguistics and The 7th International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing (ACL-IJCNLP)*, ACL, Jul. 2015, pp. 483–494.
- [25] Y.-N. Chen, W. Y. Wang, and A. I. Rudnicky, "Jointly modeling inter-slot relations by random walk on knowledge graphs for unsupervised spoken language understanding," in *Proc. of 2015 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT)*, ACL, May 2015, pp. 619–629.
- [26] Y.-N. Chen, W. Y. Wang, and A. I. Rudnicky, "Learning semantic hierarchy with distributional representations for unsupervised spoken language understanding," in *Proc. of 16th Annual Conference of the International Speech Communication Association (INTERSPEECH)*, ISCA, Sep. 2015, pp. 1869–1873.
- [27] Y.-N. Chen, D. Hakkani-Tür, and G. Tur, "Deriving local relational surface forms from dependency-based entity embeddings for unsupervised spoken language understanding," in *Proc. of 2014 IEEE Spoken Language Technology Workshop (SLT)*, IEEE, Dec. 2014, pp. 242–247.
- [28] Y.-N. Chen and A. I. Rudnicky, "Dynamically supporting unexplored domains in conversational interactions by enriching semantics with neural word embeddings," in *Proc. of 2014 IEEE Spoken Language Technology Workshop (SLT)*, IEEE, Dec. 2014, pp. 590–595.
- [29] Y.-N. Chen and F. Metze, "Multi-layer mutually reinforced random walk with hidden parameters for improved multi-party meeting summarization," in *Proc. of The 14th Annual Conference of the International Speech Communication Association (INTERSPEECH)*, ISCA, Aug. 2013, pp. 485–489.
- [30] Y.-N. Chen, W. Y. Wang, and A. I. Rudnicky, "Unsupervised induction and filling of semantic slots for spoken dialogue systems using frame-semantic parsing," in *Proc. of 2013 IEEE Workshop on Automatic Speech Recognition and Understanding (ASRU)*, IEEE, Dec. 2013, pp. 120–125.
- [31] Y.-N. Chen, K.-M. Chang, and J. Mostow, "Towards using EEG to improve asr accuracy," in *Proc. of The 2012 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*, ACL, Jun. 2012, pp. 382–385.
- [32] Y.-N. Chen, Y. Huang, H.-Y. Lee, and L.-S. Lee, "Unsupervised two-stage keyword extraction from spoken documents by topic coherence and support vector machine," in *Proc. of The 37th International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, IEEE, Mar. 2012, pp. 5041–5044.
- [33] Y.-N. Chen and F. Metze, "Intra-speaker topic modeling for improved multi-party meeting summarization with integrated random walk," in *Proc. of The 2012 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*, ACL, Jun. 2012, pp. 377–381.
- [34] Y.-N. Chen and F. Metze, "Two-layer mutually reinforced random walk for improved multi-party meeting summarization," in *Proc. of The 4th IEEE Workshop on Spoken Language Technology (SLT)*, IEEE, Dec. 2012, pp. 461–466.
- [35] Y.-N. Chen, C.-P. Chen, H.-Y. Lee, C.-A. Chan, and L.-S. Lee, "Improved spoken term detection with graph-based re-ranking in feature space," in *Proc. of The 36th International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, IEEE, May 2011, pp. 5644–5647.
- [36] Y.-N. Chen, Y. Huang, C.-F. Yeh, and L.-S. Lee, "Spoken lecture summarization by random walk over a graph constructed with automatically extracted key terms," in *Proc. of The 12th Annual Conference of the International Speech Communication Association (INTERSPEECH)*, ISCA, Aug. 2011, pp. 933–936.
- [37] Y.-N. Chen, Y. Huang, S.-Y. Kong, and L.-S. Lee, "Automatic key term extraction from spoken course lectures using branching entropy and prosodic/semantic features," in *Proc. of The 3rd IEEE Workshop on Spoken Language Technology (SLT)*, IEEE, Dec. 2010, pp. 265–270.

Professional Talks

CONFERENCE TUTORIALS

Aug 2018	COLING, Tutorial Speaker , Deep Learning for Dialogue Systems	<i>Santa Fe, NM</i>
Mar 2018	GTC, Tutorial Speaker , Deep Learning for Dialogue Systems	<i>San Jose, CA</i>
Dec 2017	TAAI, Tutorial Speaker , Deep Learning for Open-Domain Dialogues	<i>Taipei, Taiwan</i>
Nov 2017	IJCNLP, Tutorial Speaker , Open-Domain Neural Dialogue Systems	<i>Taipei, Taiwan</i>
Aug 2017	Interspeech, Tutorial Speaker , Deep Learning for Dialogue Systems (150 registered attendees)	<i>Stockholm, Sweden</i>
Jul 2017	ACL, Tutorial Speaker , Deep Learning for Dialogue Systems (250 registered attendees)	<i>Vancouver, Canada</i>
Mar 2017	ICASSP, Tutorial Speaker , Deep Learning for Dialogue Systems	<i>New Orleans, LA</i>

INVITED TALKS

Aug 2018	Apple, Invited Speaker , Recent Advances on Goal-Oriented Dialogue Systems	Cupertino, CA
Aug 2018	University of New Mexico, Invited Colloquium Speaker , Towards Personalized Conversational AI	Albuquerque, NM
Aug 2018	Amazon, Invited Speaker , Recent Advances on Goal-Oriented Dialogue Systems	Sunnyvale, CA
Jul 2018	National Science and Technology Center for Disaster Reduction, Invited Speaker , Intelligent Conversational Assistants	New Taipei City, Taiwan
Jul 2018	Speech Signal Processing Workshop, Keynote Speaker , Towards Personalized Conversational AI	Taichung, Taiwan
Jun 2018	National Taiwan Normal University, Invited Speaker , Intelligence of Ironman's JAVIS	Taipei, Taiwan
Jun 2018	Academia Sinica, Institute of Information Science, Invited Speaker , How Contexts Matter Language and Interaction in Dialogues	Taipei, Taiwan
Jun 2018	Shih Hsin University, Technology Trend and Management Practice Forum, Invited Speaker , Artificial Intelligence and Deep Learning Trends	Taipei, Taiwan
May 2018	National Taiwan University, EECS, Invited Speaker , Intelligent Conversational Assistants	Taipei, Taiwan
May 2018	National Chiao Tung University, Physics, Invited Speaker , Language Empowering Intelligent Assistants	Hsinchu, Taiwan
May 2018	Augmented Intelligence and Interaction Workshop, Invited Speaker , How Contexts Matter Understanding in Dialogues	Taoyuan, Taiwan
May 2018	National Taiwan University, EiMBA, Invited Speaker , AI Trend - Intelligent Conversational Bots	Taipei, Taiwan
May 2018	National Chiao Tung University, Communications Engineering, Invited Speaker , Language Empowering Intelligent Assistants	Hsinchu, Taiwan
May 2018	National Taiwan University, Information Management, Invited Speaker , Language Empowering Intelligent Assistants	Taipei, Taiwan
Apr 2018	Cathay Bank, Invited Speaker , Intelligent Conversational Assistants	Taipei, Taiwan
Mar 2018	Uber, Invited Speaker , Deep Learning for Dialogue Systems	San Francisco, CA
Mar 2018	Carnegie Mellon University, Invited Speaker , How Contexts Matter Language and Interaction in Dialogues	Mountain View, CA
Oct 2017	Chunghwa Telecom, Invited Speaker , Deep Learning for Intelligent Assistants	New Taipei City, Taiwan
Oct 2017	Feng Chia University, Tutorial Speaker , Dive into Deep Learning	Taichung, Taiwan
Sep 2017	National Taiwan University Hospital, Invited Seminar Speaker , Applied Deep Learning	Taipei, Taiwan
Sep 2017	National Taiwan University Hospital, Invited Seminar Speaker , Deep Learning for Language Understanding	Taipei, Taiwan
Sep 2017	ViaTech, Invited Speaker , Intelligent Conversational Bot	New Taipei City, Taiwan
Aug 2017	Taiwan Data Science Foundation, Tutorial Speaker , Dive into Deep Learning	Taipei, Taiwan
Aug 2017	Facebook, Invited Speaker , How the Context Matters Language and Interaction in Dialogues	Seattle, WA
Aug 2017	Amazon, Invited Speaker , How the Context Matters Language and Interaction in Dialogues	Seattle, WA
Jul 2017	Google Research, Invited Speaker , Language Understanding and Dialogue Management	New York, NY
Jul 2017	iThome, Invited Speaker , Open Source for Deep Learning	Taipei, Taiwan
Jun 2017	PyCon Taiwan, Invited Speaker , Bot's Brain and Soul	Taipei, Taiwan
May 2017	Microsoft Research Asia, Invited Speaker , Deep Learning for Dialogue Systems	Ilan, Taiwan
May 2017	Google Research, Invited Speaker , How the Context Matters Language and Interaction in Dialogues	Mountain View, CA
May 2017	University of California, Santa Babara, Invited Colloquium Speaker , Deep Learning for Dialogue Systems	Santa Babara, CA
Apr 2017	Hong Kong University of Science and Technology, Invited Speaker , Deep Learning for Dialogue Systems	Hong Kong
Apr 2017	iThome, Invited Speaker , Chatbot's Brain and Soul	Taipei, Taiwan
Apr 2017	Taiwan Data Science Foundation, Tutorial Speaker , Intelligent Conversational Bot	Taipei, Taiwan
Apr 2017	NovaTek, Invited Speaker , One Day for Deep Learning	Hsinchu, Taiwan
Apr 2017	MOXA, Invited Speaker , Deep Learning for Summarization	New Taipei City, Taiwan
Apr 2017	QNAP, Invited Speaker , Intelligent Conversational Bot	New Taipei City, Taiwan
Mar 2017	MediaTek, Invited Speaker , Deep Reinforcement Learning	Hsinchu, Taiwan

Mar 2017	Taiwan Data Science Foundation, Tutorial Speaker , Dive into Deep Learning	<i>Taipei, Taiwan</i>
Mar 2017	QNAP, Invited Speaker , Deep Learning Basics	<i>New Taipei City, Taiwan</i>
Jan 2017	TSMC, Invited Speaker , Machine Learning Tutorial	<i>Hsinchu, Taiwan</i>
Jan 2017	Chunghwa Telecom, Invited Speaker , Language Empowering Intelligent Assistants	<i>New Taipei City, Taiwan</i>
Dec 2016	National Taipei University, Invited Seminar Speaker , Language Empowering Intelligent Assistants	<i>New Taipei City, Taiwan</i>
Dec 2016	Academia Sinica, Invited Seminar Speaker , Language Empowering Intelligent Assistants	<i>Taipei, Taiwan</i>
Jul 2016	Google Research, Invited Speaker , Contextual Spoken Language Understanding	<i>Mountain View, CA</i>
Jul 2016	Appier Inc., Invited Speaker , Conversational / Dialogue System	<i>Taipei, Taiwan</i>
Jan 2016	National Taiwan University, Invited Speaker , Unsupervised Learning and Modeling of Knowledge and Intent for Spoken Dialogue Systems	<i>Taipei, Taiwan</i>
Jan 2016	National Tsing Hua University, Invited Colloquium Speaker , “Sorry, I didn’t get that!” – Statistical Learning from Dialogues for Intelligent Assistants	<i>Hsinchu, Taiwan</i>
Nov 2015	Microsoft Research, Invited Speaker , Unsupervised Learning and Modeling of Knowledge and Intent for Spoken Language Understanding	<i>Redmond, WA</i>
Nov 2015	VoiceBox Tech., Invited Speaker , Unsupervised Learning and Modeling of Knowledge and Intent from Dialogues	<i>Redmond, WA</i>
Oct 2015	National Taiwan University, Invited Colloquium Speaker , “Sorry, I didn’t get that!” – Statistical Learning from Dialogues for Intelligent Assistants	<i>Taipei, Taiwan</i>
Oct 2015	Academic Sinica, Invited Speaker , Ontology Learning and Intent Modeling for Spoken Language Understanding	<i>Taipei, Taiwan</i>
Jul 2015	Microsoft Research Asia, Invited Speaker , Matrix Factorization with Knowledge Graph Propagation for Unsupervised Spoken Language Understanding	<i>Beijing, China</i>
Aug 2015	Microsoft Research, Intern Presenter , Detecting Actionable Items in Meetings by Convolutional Deep Structured Semantic Models	<i>Redmond, WA</i>
May 2015	Microsoft Research, Invited Speaker , Unsupervised Learning and Modeling of Knowledge and Intent for Dialogue Systems	<i>Mountain View, CA</i>
May 2015	New York University, Invited Speaker , Unsupervised Learning and Modeling of Knowledge and Intent for Dialogue Systems	<i>New York, NY</i>
Jan 2015	National Chiao Tung University, Invited Speaker , Unsupervised Learning and Modeling of Knowledge and Intent for Dialogue Systems	<i>Hsinchu, Taiwan</i>

Professional Activities

SESSION CHAIR

2018 - Present

- North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT) – 2018 (Dialogue and Interactive Systems)
- Computational Linguistics (COLING) – 2018 (Dialogue Systems)

AREA CHAIR

2017 - Present

- North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT) – 2018
- Computational Linguistics (COLING) – 2018

PROGRAM COMMITTEE

2014 - Present

- Association for Computational Linguistics (ACL) – 2016, 2017, 2018
- Empirical Methods in Natural Language Processing (EMNLP) – 2015, 2016, 2017, 2018
- North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT) – 2016, 2018
- AAAI Conference on Artificial Intelligence (AAAI) – 2017, 2018
- International Conference on Learning Representations (ICLR) – 2019
- International Joint Conference on Artificial Intelligence (IJCAI) – 2018
- Automatic Speech Recognition Understanding (ASRU) – 2017
- Neural Information Processing Systems (NIPS) – 2016, 2018
- International Speech Communication Association (INTERSPEECH) – 2016, 2017, 2018
- International Conference on Acoustics, Speech, and Signal Processing (ICASSP) – 2016, 2017, 2018
- Spoken Language Technology (SLT) – 2014, 2016, 2018
- Computational Linguistics (COLING) – 2016, 2018
- Language Resources and Evaluation (LREC) – 2016, 2018
- International Conference on Multimodal Interaction (ICMI) – 2015
- International Conference on Data Mining (ICDM) – 2016
- NIPS-SLU – 2015
- MASC-SLL – 2015

JOURNAL REVIEWER

2013 - Present

- IEEE/ACM Transactions on Audio, Speech and Language Processing: 2013, 2014, 2015, 2016, 2017
- Transactions of the Association for Computational Linguistics: 2015
- Artificial Intelligence Review: 2015
- International Journal on Artificial Intelligent Tools: 2014, 2015, 2016