Amanda Stent | Curriculum Vitae

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Education

University of Rochester   **Rochester, NY**
PhD, Computer Science   *1996–2001*
Advisor: James F. Allen
Houghton College   **Houghton, NY**
BA, Mathematics and Music   *1992–1996*
Summa cum laude
University of Edinburgh   **Edinburgh, UK**
                                                                             1994–1995

Experience

Colby College   **Waterville, ME**
Inaugural Director, Davis Institute for AI   *Oct. 2021-present*

Bloomberg L.P.   **New York, NY**
Team Lead, People and Language AI, Chief Technology Office   *Aug. 2020–Aug. 2021*

- Managed a team of technical architects responsible for Bloomberg infrastructure across human computation, ontologies, recommender systems

Bloomberg L.P.   **New York, NY**
NLP Architect, Chief Technology Office   *Aug. 2016–Aug. 2021*

- Responsible for consistency of natural language processing work across the company
- Technical product manager for Bloomberg's natural language processing platforms
- Developed new NLP-driven enterprise products
- Developed and taught natural language processing courses for Bloomberg engineers and data scientists
- Made presentations to technical, business and government audiences

Yahoo Labs   **New York, NY**
Principal Research Scientist and Research Director   *Sep. 2013–Jul. 2016*

- Managed a group of researchers working on summarization, discourse, multilingual NLP and dialog
- Managed a group of researchers working on image and video processing
- Managed and mentored two graduate student interns; hosted two sabbatical visitors
- Conducted applied research on summarization, discourse processing and "core" NLP
- Provided technical guidance to business on applications of spoken language processing and NLP
- Made numerous invited presentations to technical, business and government audiences

AT&T Labs–Research   **Florham Park, NJ**
Principal Member of Technical Staff   *Aug. 2007–Sep. 2013*

- Conducted applied research on dialog systems, interactive data exploration and assistive technology
- Conducted basic research on natural language generation, natural language understanding and dialog modeling
- Managed and mentored three graduate student interns; hosted one sabbatical visitor
- Made numerous invited presentations to technical, business and government audiences

Stony Brook University   **Stony Brook, NY**
Associate Professor, Computer Science   *Jan. 2008–Aug. 2009*

Stony Brook University   **Stony Brook, NY**
Assistant Professor, Computer Science   *Jan. 2002–Jan. 2008*
Secondary appointment in Psychology

- Founded and led a natural language processing research group; managed 6-9 student researchers annually
- Brought in over $4.5 million in competitive national research funding
- Created an interdisciplinary computational linguistics graduate program; designed and taught new graduate courses in speech processing, natural language processing, dialog systems and information retrieval
- Designed new undergraduate course in software engineering ethics; taught across the curriculum from theory of computation to software engineering
- Supervised or co-supervised five PhD students; supervised sixteen MS student research projects and four undergraduate honors theses

AT&T Research   **Florham Park, NJ**
Consultant/Post-doctoral researcher   *Jul. 2001–Jan. 2002*

University of Rochester   **Rochester, NY**
Research assistant, Computer Science   *Jun. 1996–Jul. 2001*

Eastman Kodak   **Rochester, NY**
Intern   *Jun. 2000–Dec. 2000*

SRI International   **Palo Alto, CA**
Intern   *Jun. 1998–Aug. 1998*

Publications

Books

[1] A Stent and S Bangalore, editors. *Natural Language Generation in Interactive Systems*. Cambridge University Press, 2014.

[2] P Lewis and A Stent. *The Princess at the Keyboard*. Lulu Press, 2009.

Book Chapters

[3] G Di Fabbrizio, AJ Stent, and R Gaizauskas. Summarizing opinion-related information for mobile devices. In A Neustein and J Markowitz, editors, *Mobile Speech and Advanced Natural Language Solutions*, pages 289–317. Springer, 2013.

[4] AJ Stent. Computational linguistics. In W O'Grady, J Archibald, M Aronoff, and J Rees-Miller, editors, *Ccontemporary Linguistics: An Introduction*. St. Martin's, 5 edition, 2005. (Also 6th edition, 2009).

Journal Articles

[5] Y Borodin, V Polishchuk, J Mahmud, IV Ramakrishnan, and A Stent. Live and learn from mistakes: A lightweight system for document classification. *Information Processing & Management*, 49(1):83–98, 2013.

[6] S Stoyanchev and A Stent. Concept type prediction and responsive adaptation in a dialogue system. *Dialogue & Discourse*, 3(1), 2012.

[7] A Syrdal, T Mishra, and A Stent. On the intelligibility of fast synthesized speech for people who are blind: A cross-system comparison. *The Journal of the Acoustical Society of America*, 129(4):2421–2421, 2011. (Abstract only).

[8] RJ Gerrig, WS Horton, and A Stent. Production and comprehension of unheralded pronouns: A corpus analysis. *Discourse Processes*, 48(3):161–182, 2011.

[9] M Molina and A Stent. A knowledge-based method for generating summaries of spatial movement in geographic areas. *International Journal on Artificial Intelligence Tools*, 19(4):393–415, 2010.

[10] DM Napolitano and A Stent. TechWriter: an evolving system for writing assistance for advanced learners of English. *CALICO Journal*, 26(3):611–625, 2009.

[11] AJ Stent, MK Huffman, and SE Brennan. Adapting speaking after evidence of misrecognition: Local and global hyperarticulation. *Speech Communication*, 50(3):163–178, 2008.

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[16] JF Allen, DK Byron, M Dzikovska, G Ferguson, L Galescu, and A Stent. Toward conversational human-computer interaction. *AI Magazine*, 22(4):27–27, 2001.

[17] J Allen, D Byron, M Dzikovska, G Ferguson, L Galescu, and A Stent. An architecture for a generic dialogue shell. *Natural Language Engineering*, 6(3–4):213–228, 2000.

Conference/Workshop Papers

[18] S Uppal, V Gupta, A Swaminathan, H Zhang, D Mahata, R Gosangi, RR Shah, and A Stent. Two-step classification using recasted data for low resource settings. In *Proceedings of the 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing*, 2020.

[19] A Swaminathan, H Zhang, D Mahata, R Gosangi, RR Shah, and A Stent. A preliminary exploration of GANs for keyphrase generation. In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.

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[23] R Zhao, Y Deng, M Dredze, A Verma, D Rosenberg, and A Stent. Visual attention model for cross-sectional stock return prediction and end-to-end multimodal market representation learning. In *Proceedings of the Florida AI Research Symposium*, 2019. arXiv preprint arXiv:1809.

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[33] S Lee and A Stent. Task lineages: Dialog state tracking for flexible interaction. In *Proceedings of the Annual Meeting of the Special Interest Group on Discourse and Dialogue*, 2016. Best Paper Award.

[34] Y Song, J Vallmitjana, A Stent, and A Jaimes. TVSum: Summarizing web videos using titles. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, 2015.

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[36] T Kasturi, H Jin, A Pappu, S Lee, B Harrison, R Murthy, and A Stent. The Cohort and Speechify libraries for rapid construction of speech enabled applications for Android. In *Proceedings of the Annual Meeting of the Special Interest Group on Discourse and Dialogue*, 2015. Demo paper.

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[63] M Molina and A Stent. Generating descriptions that summarize geospatial and temporal data. In *Proceedings of the IEEE International Conference on Tools with Artificial Intelligence*, 2009.

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[65] M Hart, C Castille, R Johnson, and A Stent. Usable privacy controls for blogs. In *Proceedings of the Symposium on Social Intelligence and Networking at SocialCom*, 2009.

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[69] D Napolitano and A Stent. TechWriter: An individualized approach to writing assistance and improvement. In *Presented at the CALICO Workshop on Automatic Analysis of Learner Language*, 2008.

[70] G Di Fabbrizio, AJ Stent, and S Bangalore. Trainable speaker-based referring expression generation. In *Proceedings of the Conference on Computational Natural Language Learning*, 2008.

[71] G Di Fabbrizio, AJ Stent, and S Bangalore. Referring expression generation using speaker-based attribute selection and trainable realization (ATT-REG). In *Proceedings of the International Natural Language Generation Conference*, 2008. Shared task submission.

[72] Y Borodin, JP Bigham, A Stent, and IV Ramakrishnan. Towards one world web with HearSay3. In *Proceedings of W4A*, 2008.

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[74] S Stenchikova and A Stent. Measuring adaptation between dialogs. In *Proceedings of the SIGdial Workshop on Discourse and Dialogue*, 2007.

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[76] M Hart, R Johnson, and A Stent. More content-less control: Access control in the web 2.0. In *Proceedings of the Workshop on Web 2.0 Security and Privacy at the IEEE Symposium on Security and Privacy*, 2007.

[77] H Guo, J Mahmud, Y Borodin, A Stent, and I Ramakrishnan. A general approach for partitioning web page content based on geometric and style information. In *Proceedings of the International Conference on Document Analysis and Recognition*, 2007.

[78] Y Borodin, J Mahmud, IV Ramakrishnan, and A Stent. The HearSay non-visual web browser. In *Proceedings of W4A*, 2007. Winner, Delegates' Award.

[79] H Zhong, A Stent, and M Swift. Modeling the dative alternation with automatically extracted features. In *Proceedings of the the Workshop on Statistical and Empirical Approaches for Spoken Dialog Systems at AAAI*, 2006.

[80] Z Sun, A Stent, and IV Ramakrishnan. Dialog generation for voice browsing. In *Proceedings of the International Cross-Disciplinary Workshop on Web Accessibility at W4A*, 2006.

[81] A Stent, S Stenchikova, and M Marge. Dialog systems for surveys: The Rate-a-Course system. In *Proceedings of the IEEE Spoken Language Technology Workshop*, 2006.

[82] H Guo and A Stent. Taxonomy based data extraction from multi-item web pages. In *Proceedings of the Workshop on Web Content Mining with Human Language Technologies at ISWC*, 2006.

[83] RJ Gerrig, WS Horton, and A Stent. Unheralded pronouns and theories of pronoun resolution. In *Presented at the Annual Meeting of the Society for Text and Discourse*, 2006.

[84] S Bangalore, G Di Fabbrizio, and A Stent. Learning the structure of task-driven human–human dialogs. *Proceedings of the International Conference on Computational Linguistics and Annual Meeting of the Association for Computational Linguistics*, 2006.

[85] S Bangalore, G Di Fabbrizio, and A Stent. Towards learning to converse: Structuring task-oriented humanhuman dialogs. In *Proceedings of the International Conference on Acoustic, Speech and Signal Processing*, 2006.

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[87] A Stent, M Marge, and M Singhai. Evaluating evaluation methods for generation in the presence of variation. In *Proceedings of the International Conference on Intelligent Text Processing and Computational Linguistics*, 2005.

[88] A Stent and H Guo. A new data-driven approach for multimedia presentation planning. In *Proceedings of EuroIMSA*, 2005.

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[92] IV Ramakrishnan, A Stent, and G Yang. HearSay: enabling audio browsing on hypertext content. In *Proceedings of the International Conference on the World Wide Web*, 2004.

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[97] M Johnston, S Bangalore, A Stent, G Vasireddy, and P Ehlen. Multimodal language processing for mobile information access. In *Proceedings of the International Conference on Spoken Language Processing*, 2002.

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[99] J Allen, G Ferguson, and A Stent. An architecture for more realistic conversational systems. In *Proceedings of the International Conference on Intelligent User Interfaces*, 2001.

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Technical Reports

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Patents

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[111] A Stent and S Bangalore. System and method for dialog modeling, June 2020. US Patent 10,672,381.

[112] Y Song, J Vallmitjana, A Stent, and A Jaimes. Topical based media content summarization system and method, September 2020. US Patent 10,769,208.

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[114] A Pappu, S Lee, J Tetreault, and A Stent. Fact machine for user generated content, September 2020. US Patent 10.789,310.

[115] Y Mehdad, A Pappu, and A Stent. Scalable multilingual named-entity recognition, June 2020. US Patent 10,699,077.

[116] S Lee and A Stent. Method and system for facilitating a guided dialog between a user and a conversational agent, June 2020. US Patent 10,672,397.

[117] M Chandrasekharan, K Horiguchi, AJ Stent, RA Baeza-Yates, J Kuwano, T Achint Oommen, and Y Chang. Audio verification, December 2020. US Patent 10,855,676.

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[131] JP Ruckart, G Di Fabbrizio, and AJ Stent. Managing vendor inventory information and shopping navigation routes based upon shopping list contents, November 2017. US Patent 9,830,638.

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[140] G Di Fabbrizio, S Bangalore, and A Stent. System and method for referring to entities in a discourse domain, May 2012. US Patent 8,175,873.

[141] AC Loui and AJ Stent. Method and system for segmenting and identifying events in images using spoken annotations, October 2006. US Patent 7,120,586.

[142] AC Loui and AJ Stent. Method and system for segmenting and identifying events in images using spoken annotations, October 2004. US Patent 6,810,146.

Unpublished...

[143] Yuval Pinter, Amanda Stent, Mark Dredze, and Jacob Eisenstein. Learning to look inside: Augmenting token-based encoders with character-level information. 2021.

[144] Tina Tseng, Amanda Stent, and Domenic Maida. Best practices for managing data annotation projects. 09 2020.

[145] Aradhya Neeraj Mathur, Devansh Batra, Yaman Kumar, Rajiv Ratn Shah, Roger Zimmermann, and Amanda Stent. LIFI: Towards linguistically informed frame interpolation. *arXiv preprint arXiv:2010.16078*, 2020.

[146] D Radev, A Stent, J Tetreault, A Pappu, A Iliakopoulou, A Chanfreau, P de Juan, J Vallmitjana, A Jaimes, R Jha, and B Mankoff. Humor in collective discourse: Unsupervised funniness detection in the New Yorker cartoon caption contest. arXiv preprint arXiv:1506., 2015.

[147] AJ Stent. Dialogue systems as conversational partners: applying conversation acts theory to natural language generation for task-oriented mixed-initiative spoken dialogue. PhD Thesis, 2001.

[148] AJ Stent. Content planning for multi-modal, mixed-initiative task-oriented dialog. Thesis proposal, 1999.

Recent Invited Talks

The computational linguistics of conversation modeling
COLING, December 9, 2020
https://screencast-o-matic.com/watch/cYXOVcLKsX?sf133754525=1

Dialogue and finance
KDD 2020 Workshop on Conversational Systems Towards Mainstream Adoption, August 24, 2020
joint talk with Camilo Ortiz

Dialogue and finance
Young Researchers' Roundtable on Spoken Dialogue Systems, June 30, 2020
joint talk with Camilo Ortiz

NLP for natural documents
University of Massachusetts Amherst, March 5, 2020

Text analytics in finance
Machine Learning in Finance 2019, May 17, 2019

Machine learning for structured and unstructured data in finance
New England Statistics Symposium, May 16, 2019
joint talk with David Rosenberg

Whose data?
Ethics in NLP Workshop at NAACL HLT 2018, June 5, 2018

AI for unstructured data in finance
Canadian AI 2018, May 11, 2018

AI, society, and you
Women of Silicon Valley, May 2, 2018

Text analytics in finance: A case study and some considerations
University of Maryland College Park, November 15, 2017

Text analytics in finance: A case study and some considerations
Johns Hopkins University, CSLP, October 17, 2017

Machine learning from conversational speech
The National Academies, August 9, 2017

State tracking for multi-task conversational agents
The College of New Jersey, October 18, 2016

State tracking for multi-task conversational agents
University of Michigan, September 27, 2016

Uphill battles in task modeling and grounding for dialog
EMNLP Workshop on Uphill Battles in NLP, November 5, 2016

Multilingual named entity identification at scale
ACM-W New York Celebration of Women in Computing, April 9, 2016

Two methods for easing video consumption
Georgia Tech, November 12, 2015

Two methods for easing video consumption
Emory University, November 11, 2015

Summarization under tight bounds for the web
Carnegie Mellon University, LTI, September 25, 2015

Computational approaches to the production of referring expressions: Dialog changes (almost) everything
Pre-CogSci Workshop, June 20, 2011

Shared experiences, shared representations, and the implications for applied natural language processing
FLAIRS 2011, May 18, 2011

Service

Natural Language Processing Research Community..

2021-: Inaugural Co-Editor in Chief, ACL Rolling Review
2009–2021: Rotating Editor, Dialogue & Discourse
2003–2005: Member Editorial Board, Computational Linguistics

2008–2021: Web admin, SIGdial
2016–2020: Member Executive Committee, SIGGEN
2017–2019: President Emeritus, SIGdial
2013–2017: President, SIGdial
2008–2012: Vice President, SIGdial

2019: Board member, New York Academy of Sciences NLP, Dialog and Speech Symposium (NYAS NDS)
2019: Co-Organizer, Dagstuhl Seminar on Multi-Document Information Consolidation
2019: Co-Organizer, the Natural Legal Language Processing Workshop at HLT-NAACL 2019
2018: Co-Organizer, the KDD 2018 Data Science, Journalism & Media Workshop
2017: Co-Organizer, the KDD 2017 Data Science + Journalism Workshop
2014: Co-Organizer, the Workshop on Dialog in Motion at EACL 2014

2020: Workshop Co-Chair, AKBC
2020: Area Chair, ACL
2020: Ethics Committee member, EMNLP

2019: Senior Area Chair, EMNLP

2019: Area Chair, CoNLL

2018: Program Co-Chair, HLT-NAACL

2013: Area Chair, EMNLP

2013: Senior Program Committee Member, ACL

2012: Program Co-Chair, SIGDIAL Conference

2011: Area Chair, SemDial

2011: Co-Organizer, First Surface Realisation Challenge

2011: Special Session Co-Chair, INTERSPEECH

2010: Senior Program Committee Member, NAACL

2006: Senior Progam Committee Member, HLT-NAACL

2007: Demo Session Co-Chair, HLT-NAACL

2004: Faculty Co-Advisor to the Student Research Workshop, HLT-NAACL

Regularly serve as a program committee member for conferences including ACL, COLING, EACL, EMNLP, INLG, INTERSPEECH. HLT-NAACL, SEMDIAL, SIGDIAL. Occasionally serve as a program committee member for conferences including AAAI, CogSci, ICASSP, IJCAI, IUI.

Ad hoc reviewer for journals including the Artificial Intelligence Journal, Copmputational Intelligence, Computational Linguistics, Computer Speech and Language, Cognitive Science, Discourse Processes, IEEE Transactions on Knowledge and Data Engineering, Information Retrieval, the Journal of Natural Language Engineering, the Journal of Pragmatics.

Computer Science

2020-: Committee member, National Academics Committee on Responsible Computing Research

2014–: ABET Program Evaluator

2021-: ABET Commissioner

2013-: Board member, Computing Research Association subcommittee on Widening Participation in computing research (CRA-WP, formerly CRA-W)

October 2021-: Co-Chair, Computing Research Association subcommittee on Widening Participation in computing research (CRA-WP, formerly CRA-W)

Regularly serve as panelist at CRA-WP grad cohort and career mentoring workshops.

Regular National Science Foundation Panelist.
Member of the ACL, the ACM, IEEE and SIGdial.

Other

2013-: EMT, Chatham Emergency Squad

Awards and Honors

2019: Data Science Professional of the Year, Waters in Tech and Data Science

2013: Senior Member, ACM

2012: Senior Member, IEEE

2004: Undergraduate teaching award, Stony Brook University

1996: Pi Kappa Lambda, Houghton College

Teaching

Natural Language Processing	**Bloomberg L.P.**
	Winter 2017, Winter 2018, Winter 2019
CES302: Professional Ethics for Computer Science	**Stony Brook University**
	Fall 2005, Fall 2006
CES303: Introduction to Theory of Computing	**Stony Brook University**
	Fall 2004, Fall 2006
CES308: Software Engineering	**Stony Brook University**
	Fall 2005
CES333: User Interface Development	**Stony Brook University**
	Fall 2002
CES352: Artificial Intelligence	**Stony Brook University**
	Fall 2007
CES393: Special Topics in Computer Science: NLP	**Stony Brook University**
	Spring 2004
CES507/LIN650: Introduction to Computational Linguistics	**Stony Brook University**
	Spring 2002, Fall 2003, Spring 2006
CES542: Speech Processing	**Stony Brook University**
	Spring 2003, Spring 2005, Spring 2007
CES646/CES656: Seminar in Artificial Intelligence	**Stony Brook University**
	Each Semester 2002-2007
CSE656/PSY610.49: Computational and Empirical Approaches to Discourse	**Stony Brook University**
, Language, Mind and Brain Seminar, co-taught with Prof. Susan Brennan	*Fall 2002*
CES691: Information Retrieval and Information Extraction from the Web	**Stony Brook University**
	Fall 2007

Federal Funding

(DARPA) CALO	
PI at Stony Brook University: Amanda Stent	*2002-2004*
(NSF) ITR: Adaptive Spoken Dialog with Human and Computer Partners	**$1,524,000**
PIs: Susan Brennan, Arthur Samuel, Richard Gerrig, Marie Huffman, Amanda Stent	*2003-2008*
(NSF) Workshop: Student Research in Computational Linguistics, at HLT/NAACL 2004	**$20,164**
PIs: Eric Fosler-Lussier, Lisa Ballesteros, Amanda Stent	*2004-2005*
(NSF) Content-Driven Techniques for Non-Visual Web Access	**$550,623**
PIs: IV Ramakrishnan, Michael Kifer, Susan Brennan, Amanda Stent	*2005-2010*
(NSF) Content-Based Access Control for Blogs and Social Networks	**$448,607**
PIs: Amanda Stent, Rob Johnson	*2007-2010*
(NSF) CRI: IAD – Web Accessibility Laboratory	**$126,422**
PIs: IV Ramakrishnan, Amanda Stent, Yevgen Borodin	*2008-2012*
(NSF) HCC-Large: Using the internet without using the eyes	**$1,623,540**
PIs: IV Ramakrishnan, Susan Brennan, Amanda Stent, Yevgen Borodin	*2008-2014*

Students and Interns

PhD students supervised: Zan Sun (PhD 2006); Hui Guo (PhD 2007); Huayan Zhong (PhD 2009); Svetlana Stenchikova (PhD 2009); Yevgen Borodin (PhD 2009). MS students: Seventeen MS projects and three MS theses supervised.

Undergraduate honors: Four undergraduate honors theses supervised.

External member, thesis committees: Jalal Mahmud (Stony Brook University, PhD 2008); Agustin Gravano (Columbia, PhD 2010); Ming Sun (CMU, PhD 2016); Ran Zhao (CMU, PhD 2019); Elisa Ferracane (UT Austin, PhD 2020); Samiha Samrose (Rochester).

Summer interns: Shiri Azenkot (University of Washington, summer 2009); Enrique Parodi (Universidad Politecnica de Madrid, summer 2010); Nobal Niraula (University at Memphis, summer 2012, 2013); William Yang Wang (CMU, summer 2015); Junyi Jessy Li (University of Pennsylvania, summer 2016); Ran Zhao (CMU, summer 2017); Katherine Keith (University of Massachusetts Amherst, summer 2018); Yuval Pinter (Georgia Tech, summer 2019, summer 2020).