JULIA HIRSCHBERG

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Biographical Sketch

Julia Hirschberg has been a professor in the Department of Computer Science at Columbia University since 2002, serving as Chair from July 2012 through June 2018. She was appointed Percy K. and Vida L. W. Hudson Professor of Computer Science in 2013. She received her PhD in Computer Science from the University of Pennsylvania. She worked at Bell Laboratories and AT&T Laboratories – Research from 1985-2003 as a Member of Technical Staff, Department Head, and Technology Leader, creating the Human-Computer Interface Research Department at Bell Labs. She has done research on prosody, discourse structure, conversational implicature, text-to-speech synthesis, speech search, spoken dialogue systems, emotional speech, deceptive speech, charismatic speech and speech summarization. She served as editor-in-chief of Computational Linguistics from 1993-2003 and was an editor-in-chief of Speech Communication from 2003-2006 and is now on the Editorial Board. She served on the Executive Board of the Association for Computational Linguistics (ACL) from 1993-2003, the IEEE Speech and Language Processing Technical Committee (SLTC) from 2011–, the executive board of the North American chapter of the Association for Computational Linguistics (NAACL), 2012-2015, the AAAI Council, 2012-2015, the Board of Directors of the Computing Research Association (CRA) 2013-15; 2018–, the ACM/AAAI Alan Newell Award Committee, 2018–; the IEEE SPS Fellow Evaluation Committee, 2019–21; the American Philosophical Society Class 1 Memberships Committee, 2019–; the American Academy of Arts and Sciences Class I Section 6 Membership Panel, 2020–; NAE Section 5 Vice Chair, 2019-20, and Chair, 2020-21; the board of the International Speech Communication Association (ISCA) from 1999-2007 (as President 2005-2007); Advisory Council 2007–, chair of Distinguished Lecturers Selection Committee, 2010–2012), and on the ISCA Diversity Committee (2018–). She is former co-chair of the CRA-W (now CRA-WP), 2016–2019, and has been a board member of since 2009. She has been a fellow of the Association for the Advancement of Artificial Intelligence since 1994, an ISCA Fellow since 2008, and is a founding Fellow of the ACL since 2011. She was elected an ACM fellow in 2015 and an IEEE Fellow in 2017. She was elected to the National Academy of Engineering in 2017 and the American Academy of Arts and Sciences in 2018. She has received honorary doctorates from the Royal Institute of Technology (KTH) Stockholm and from Tilburg University in the Netherlands. She is the 2011 recipient of the James L. Flanagan Speech and Audio Processing Award from IEEE and of the ISCA Medal for Scientific Achievement. She was elected to the American Philosophical Society in 2014 and was elected an honorary member of the Association for Laboratory Phonology in 2014 and was selected as the Fillmore Professor at the 2017 LSA summer Institute. She received a Columbia Engineering School Alumni Association (CESAA) Distinguished Faculty Teaching Award in 2009 and received the Janette and Armen Avanessians Diversity Award in 2018. She won best paper awards from EMNLP 2021 (Best Short Paper), Eurasip (2005) for Best Paper published in *Speech Communication* for 2003-2004, Interspeech 2006 (Best Student Paper), the AVIOS award

for Best Paper appearing in the Journal of AVIOS in 1994, Best Paper at CoginfoComm 2012, Best Student Paper at Speech Prosody 2014, Best Paper Award for Cognitive 2015, and 2016 Best Paper Award for an article appearing in *Computer Speech and Language*. She has received IBM Faculty Awards in 2005 and 2006 and has also received funding from the National Science Foundation, the Department of Homeland Security, DARPA, Google, IARPA, KDD, Lockheed Martin, the Air Force Office of Scientific Research, the Simons Foundation and Amazon. She is an Amazon Scholar (2020–). She holds 6 patents for text-to-speech synthesis and audio browsing/retrieval. Her h-index is 79 and citation 29,049.

Research Interests

Computational Linguistics/Speech/Natural-Language Processing: She has worked on Empirical and Corpus-based Studies of Intonation (Prosody) and Discourse; Automatic Detection of Emotion, Charisma, Trust, and Deception in Speech; Hedging Behavior in Text and Speech; Spoken Dialogue Systems; Speech Search for Low Resource Languages; Code-Switching; Text-to-Speech Synthesis; and Annotation Standards for Speech Corpora. Her current projects include: Deception detection for police, military, social services; new online training in the LieCatcher game to train humans to detect lies; Trusted speech: what kind of speech do humans trust? Entrainment and empathy in conversation; Prosody for Text-to-Speech Synthesis; Identifying radicalization in far-right and far-left videos; Identifying misinformation and disinformation in social media (Twitter) and the intent behind it; Improving speech and dialogue act alignment in the SwitchBoard Dialogue Act corpus; and Detecting forms of emotional speech across diverse cultures.

Employment

2020– Amazon Scholar.

2013– Columbia University, Percy K. and Vida L. W. Hudson Professor of Computer Science.

2012–2018 Columbia University, Chair of Computer Science.

2002-13 Columbia University, Professor of Computer Science.

2008–09 KTH Stockholm, Guest Research Professor.

2000–03 AT&T Labs – Research, Florham Park. Technology Leader, Human-Computer Interface Research Department.

1996–00 AT&T Labs – Research, Florham Park. Division Manager, Human-Computer Interface Research Department.

1994–96 AT&T Bell Laboratories, Murray Hill. Division Manager, Human-Computer Interface Research Department.

1985–94 AT&T Bell Laboratories, Murray Hill. Member of Technical Staff, Linguistics Research Department.

1974–82 Smith College. Assistant Professor of History, 1977-82; Instructor in History, 1974-77.

Education

1985 PhD, Computer and Information Science, University of Pennsylvania. Thesis: "A Theory of Scalar Implicature". Thesis Advisor: Bonnie Webber.

1982 MSEE, Computer and Information Science, University of Pennsylvania. Thesis: "Representing the Codasyl Data Model in the Type Systems of High Level Languages". Thesis Advisor: Peter Buneman.

1976 PhD, History, University of Michigan at Ann Arbor. Thesis: "A Social History of Puebla de los Angeles, 1531-1560". Thesis Advisor: Charles Gibson.

Honors and Awards

2021 EMNLP Best Short Paper Award

2020 ISCA Special Service Medal

2018 Honorary Doctorate (eredoctoraat), Tilburg University, Netherlands

2018 Elected to the American Academy of Arts and Sciences (AAAS)

2017 Elected to the National Academy of Engineering (NAE)

2017 Fellow of the Institute of Electrical and Electronic Engineers (IEEE)

2017 Fillmore Professor of the Linguistic Society of America Summer Institute

2016 Best Paper Award for an article appearing in *Computer Speech and Language*

2015 Fellow of the Association for Computing Machinery (ACM)

2015 Best Paper Award, *COGNITIVE* 2015.

2014 Best Student Paper Award, Speech Prosody 2014.

2014 Elected to American Philosophical Society.

2014 Elected Honorary Member, Association for Laboratory Phonology.

2012 Best Paper Award, CogInfoCom 2012.

2011 Founding Fellow of Association for Computational Linguistics.

2011 ISCA Medal for Scientific Achievement.

2011 IEEE James L. Flanagan Speech and Audio Processing Award.

2009 Columbia Engineering School Alumni Association (CESAA) Distinguished Faculty Teaching Award for 2009.

2008– Fellow, International Speech Communication Association.

2007 Honorary Doctorate (Hedersdoktorer), KTH (Royal Institute of Technology), Stockholm.

2005–2007 IBM Faculty Award.

2006 Interspeech 2006 Best Student Paper Award (one of 3).

2005 Best Paper Award for a paper appearing in *Speech Communication* in 2003-2004 (given by EURASIP) for "Prosodic and other cues to speech recognition failures," Julia Hirschberg, Diane Litman, and Marc Swerts, 2004.

1994– Fellow, Association for the Advancement of Artificial Intelligence.

1994 Best Paper Award, *Journal of the American Voice*, I/O Society (AVIOS).

1982–85 IBM Dissertation Fellowship, Computer and Information Science, University of Pennsylvania.

Journal Responsibilities

Co-editor, Springer Series on the Theory and Practice of NLP, 2014–.

Member of Advisory Board of Editors, *Journal of Pragmatics*, 2011–.

co-Editor in Chief, *Speech Communication*, 2003–2006.

Editor in Chief, *Computational Linguistics*, 1993–2003.

Special Issue Editor:

Speech Communication: Special Issue on Error Handling in Spoken Dialogue, 2005, with Rolf Carlson and Marc Swerts.

IEEE Transactions on Speech and Audio Processing: Special Issue on Spontaneous Speech Processing, 2003, with Mary Beckman, Shuichi Itahashi, Tatsuya Kawahara, Mark Liberman, and Satoshi Nakamura.

Language and Speech: Special Double Issue on Prosody and Conversation, 41(3-4): 1999, with Marc Swerts.

Editorial Boards:
Computational Linguistics, 1990-93; *Speech Communication*, 1993–; *Language and Speech*, 1994–2001.

Professional Activities

American Academy of Arts and Sciences Class I, Section 6 Membership Panel, 2020–

DARPA Information Science and Technology (ISAT) study group, 2019–2022

National Academy of Engineering: Section 5 Vice-Chair, 2019–20; Chair, 2020–21

American Philosophical Society: Class 1 Committee on Membership, 2019–

IEEE Signal Processing Society: Fellow Selection Committee Vice Chair, 2019–21

Committee Member, ACM/AAAI Alan Newell Award Committee, 2018–; Deputy Chair, 2019–20; Chair, 2020–2021

Committee Member: ACL Nominating Committee, 2017–2019.

Co-Chair of the Computing Research Association (CRA) Committee on Women (now CRA-WP – Widening Participation), 2016–2019; Board member, 2009–.

AI 100 Study Panel 2015-2016: The purpose of this panel is to prepare a report on the state of AI from 15 years ago to the present to the next 15 for government and general public consumption.

Committee of Visitors, NSF's Directorate for Computer and Information Science and Engineering (CISE), 22-24 October 2014.

Computing Research Association Executive Board, 2013-14; Board member 2013-15, 2018–2019

Member, IEEE James A. Flanagan Award Committee, 2012-17; Chair, 2014-16.

Councilor of the American Association of Artificial Intelligence, 2012–15

Executive Board of the North American ACL, 2012–15.

IEEE Speech and Language Processing Technical Committee, 2011–22.

Chair, ISCA Distinguished Lecturers Selection Committee, 2010–13.

ISCA Advisory Council, 2008–.

ISCA Diversity Committee, 2018–

Fellows Selection Committee, ISCA, 2008–2010.

Fellows Selection Committee, AAAI, 2006–2008.

President, International Speech Communication Association (ISCA), (1̃500 members), 2005–2007. ISCA Board Member 2000–2007.

Executive Committee, Association for Computational Linguistics (ACL), 1993–03.

Permanent Council, International Conference on Spoken Language Processing (ICSLP), 1996–.

Advisory Boards and Review Panels:
Stanford Linguistics Department review committee, May 2023; Penn State NRT LINDIV Advisory Board, 2021–; UIUC Department of Computer Science Academic Review Panel, 2021; 2020 Beckman Institute for Advanced Science and Technology (UIUC) External Theme Review Committee for Intelligent Systems, 2020; NSF/CISE Committee of Visitors, Chair of IIS Subcommittee, 2019; External Reviewer, Harvard University Committee to Visit the Harvard John A. Paulson School of Engineering and Applied Sciences, 2019; External Reviewer, Cornell University Computer Science Department, 2018; External Reviewer, Brooklyn College Computer and Information Science Department, 2017; Camomile International Advisory Committee, 2013–16; Chair, Research Assessment 2012, Tilburg School of Humanities, Department of Communication and Information Sciences, 2011-14; HLT Advisory Board, 2004–2007; NUTEK Research Assessment Committee, KTH Stockholm, March 2001; Department Review Committee, Department of Computer Science Tufts University, October24-25, 2013 ; IM2 Scientific Board, Institut Dalle Molle d'Intelligence Artificielle Perceptive (IDIAP), 2002–2005; Evaluating Committee for the NUTEK (Swedish National Board for Industrial and Technical Development) Competence Centre for Speech Technology, CTT, Stockholm, March 2001, and Technology Advisory Panel, 1999–; Evaluating committee, Dutch Science Foundation (NWO) Priority Research Programme in Language and Speech Technology, 2000; Advisory Panel, Japanese Science and Technology Agency Priority Program (Organized Research Combination System), Spontaneous Speech: Corpus and Processing Technology, 1999–2003; Advisory Panel, MATE (Multilevel Annotation, Tools Engineering) Project (EU), 1998–2000; Scientific Advisory Committee, SIGDial, 1997–2003; Acoustical Society of America Speech Technical Committee, 1994–96; DARPA Committee on Database and Evaluation Issues, 1991-92.

Organizational Responsibilities for Conferences and Symposia:
General Chair, HLT-NAACL 2004;
Scientific/Program/Technical Committees:
Spoken Language Technology (SLT) Workshop 2022/2023 (Technical Chair); Interspeech 2022 (Plenary Session Chair); Speech Prosody 2022 (PC); WiNLP2022; YRRSDS 2022; IWSDS 2021; EMNLP 2021; WiNLP 2021; ICASSP 2021 (Meta Reviewer); ACL-IJCNLP2021 workshop on "Benchmarking: Past, Present and Future" 2021; Asilomar 2021; ASRU 2021; Interspeech 2021 (Organizing Committee: Diversity); EMNLP 2020 Area Chair; ICASSP 2020 (Meta Reviewer); LabPhon17 2020; IJCAI-PRICAI 2020 (Senior PC Chair); Speech Prosody 2020; WiNLP 2020; YRRSDS 2020; Interspeech 2020 (Session Chair) ICASSP 2019 (Meta Reviewer); LT4All 2019; SSW10 2019 (Advisory Committee); MMPrag 2019; ICPhS 2019; IJCAI 2019 (Area Chair); SLSP 2019; Interspeech 2018 (Area Chair); ICASSP 2018 (Meta Reviewer); Speech Prosody 2018; ETAP4 2018; IWSDS 2018; LabPhon16, 2018; MMPrag 2018; S4P 2018; SLSP 2018; Interspeech 2017 (Area Chair); ICASSP 2017 (Meta Reviewer); Women in NLP Workshop, ACL 2017; ASRU 2017; AVEC 2017; International Workshop on Spoken Dialogue Systems

2017; EMNLP 2017; SCNLP 2017; WISSAP 2017; YFRSW 2017; ICASSP 2016 (Meta Reviewer); Interspeech 2016 (Area Chair); NAACL 2016 Workshop on Computational Approaches to Deception Detection; Speech Prosody 2016; LabPhon16; ACL 2015 (Area Chair); ICPhS 2015; NAACL 2015; ICASSP 2015 (Meta-Reviewer); ETAP 2015; AAAI 2015 Spring Symposium on Turn-taking; IWSDS 2015; EMNLP Workshop on Code-Switching 2014; Interspeech 2014 (Area Chair); AAAI 2014; ICASSP 2014 (Meta Reviewer); LabPhon 2014; IWSD 2014; LREC 2014; SigDIAL 2014; SLT 2014 (publicity co-chair); Conference on Speech Prosody, 2014; SWIP 2014; LabPhon 2013; NAACL 2013; Errare 2013; ICASSP 2013 (Meta-Reviewer); Interspeech 2013; SSW8 2013; Interspeech 2012 (area chair); ADEPT 2012; AVEC 2012; LabPhon 2012; EACL 2012; EMNLP 2012; ICASSP 2012 (Meta-Reviewer); IWIS2012; LabPhon 12; PROPOR 2012; Speech Prosody 2012; SIGDIAL 2012; IWSD 2012; SLT 2012; ACII 2011; ACL-HLT 2011 (regular and Student Session); Constraints in Discourse 2011; Interspeech 2011 (area chair); HCI 2011; ICPhS 2011; ETAP 2011; SIGDIAL 2011; KES-Natural Language Visualization Workshop, 2010; EMNLP 2010; SLT 2010 (area chair for discourse); Coling 2010; CoSLI10; Interspeech 2010; PROPOR 2010; Prosody 2010; Second Language Studies Workshop, 2010; ACL 2010 (area chair for Spoken Language Processing); IEEE SLT 2010 (area chair); 7th ISCA Workshop on Speech Synthesis, Advisory Committee, 2010; NAACL-HLT 2009 (Area Chair for Discourse); International Conference on Affective Computing and Intelligent Interaction (ACII) 2009; ACL-IJNLP 2009; COLING 2008 (Area Chair); ProPor 2008; SigDial 2008; Speech Prosody 2008; ACL/HLT 2008; Interspeech 2008; Spoken Language Technology 2008; ICPhS 2007; Searching Spontaneous Conversational Speech 2007 (SIGIR workshop); SigDial 2007; ParaLing 2007; Interspeech 2007 (Area Chair); ACL 2007; HLT-NAACL 2007 (faculty advisor to PhD Symposium); Interspeech 2006; Area Chair; HLT-NAACL 2006; AAAI-2006; Speech Prosody 2006 (Dresden); Eurospeech 2005 (Area Chair); Workshop on Interdisciplinary Approaches to Speech Indexing and Retrieval; May, 2004; Workshop on Higher-Level Linguistic and Other Knowledge for Automatic Speech Processing, May, 2004; ICSLP 2004 (Area Chair); ACL 2004; International Conference on Speech Prosody, Nara, Japan, 2004; Eurospeech-03 (Area Chair); ACL-03; HLT-NAACL-03; ICSLP-02 (Area Chair); Prosody 2002; ACL-02; NAACL-01; ACL-01; Eurospeech-01 (Area Chair); ESCA Workshop on Emotion and Speech, Belfast, 2000; ACL-00 Thematic Session on Machine Learning and Statistical NLP for Dialogue; Intonation: Models and ToBI Labeling, Workshop at ICPhS-99, Berkeley, 1999; AAAI-99 (Senior Program Committee); ESCA Workshop in Interactive Dialogue in Multi-Modal Systems, Munich, 1999; ICSLP-98; ESCA Tutorial and Research Workshop on Dialogue and Prosody, Eindhoven, September, 1999; Computational Psycholinguistics Conference, Berkeley, 1997; ESCA Workshop on Prosody, 1993; ACL-93; ACL-92, student session; DARPA Speech and Natural Language Workshop, 1992; AAAI-90; AAAI Symposium on Spoken Language Systems, 1989; ACL-89 (Program Chair); ACL-87; AAAI-86.

Workshop Organization:

(with Una Stojnic) Workshop on Lying, Deception, Pretense and Noncooperative Communication, 3/24/18, Columbia University. Technical Committee, IEEE SLT Workshop, 2016; Young Female Researchers in Speech Workshop (co-organizer of the first workshop at Interspeech) 2016; Co-chair, Publicity, IEEE SLT Workshop, 2014; co-organizer (with Jeff Good and Owen Rambow), ComputEL 2014: ACL Workshop on Endangered Languages, June 26-27, Baltimore; Co-organizer (with R. Carlson and M. Swerts), ISCA Tutorial and Research Workshop on Error Handling in Spoken Dialogue Systems, Chateau-d'Oex-Vaud, Switzerland, August 28–31, 2003; Co-organizer (with M. Bacchiani, D. Litman, and M. Ostendorf), ISCA Tutorial and Research Workshop on Prosody in Speech Recognition and Understanding, October, 2001; Co-organizer (with O. Rambow and M. Walker), ACL-99 Thematic Session on Discourse Tagging: Uses, Results and Applications; Co-organizer (with C. Kamm and M. Walker), ACL Workshop on Interactive Spoken Dialogue Systems, July, 1997; Co-organizer (with J. Olive, R. Sproat, and J. van Santen), Second ESCA/IEEE Workshop on Speech Synthesis, New Paltz, September 12-15, 1994; Co-organizer (with D. Litman), AAAI Fall Symposium ("Discourse Structure in Natural Language Understanding and Generation"), 1991.

Columbia University Service

Member, Columbia Data Science Head Search Committee, 2023–

Member, Samuel Johnson Medal Committee, 2021–

Member, University Honors and Prizes Committee, 2021–

Member, CU Faculty Senate 2007–; Member Senate Education Committee, 2007–8; Chair, Senate Information Technology Committee, 2009–12 ; co-Chair, 2013–

Member, SEAS Dean Search committee, 2021–22

Columbia PARS Bargaining Committee, 2019–

Member, Advisory Board, Center for Teaching and Learning, 2017–

Member, Gender-based Misconduct Committee, 2017–20

Member, CU Financial Conflict of Interest Committee, 2011–20

Member, Prevention Working Group: Sexual Respect Initiative, 2014-17

Member, Recruiting committee for new CUIT directory, 2014-15

Led (with H. Schulzrinne) CS side of new Dual MS in Journalism and CS, 2009–10 and directed the program with William Grueskin of the School of Journalism, 2009–12

Member, Search Committee for Journalism School Brown Institute Directory, 2011–12

Member, University Writing Program Advisory Board, 2009–12

Barnard Student Advisor, 2006–12

Member, CSS-MSE Faculty Advisory Committee, 2010–11

CU Dean's Search Committee, 2007–8

CU Vice Provost for Diversity's Taskforce for Diversity in Science and Engineering, 2005–8

CU Panel on Discrimination and Sexual Harassment, 2005–8

CU Faculty Housing Committee, 2006–8

CLASS executive Board and active recruiter, 2003–8

CCLS Executive Board, 2003–8

ADVANCE STRIDE working group on recruiting, 2004–7

SEAS: School of Engineering and Applied Science Service:

Member, Steering Committee for CC/SEAS Expansion Study, 2021–22 and SEAS Undergrad Expansion Internal Committee, 2021–22

Member, SEAS Executive Committee, 2018-21

Member, Dean's Faculty Advisory Committee, 2010–13

SEAS Diversity Committee, 2005–8

SEAS Research Scientist Ad Hoc committee, 2003–8

SEAS Senior Advisor, 2004–5

SEAS Juniors and Combined Plan Advisor, 2003–4

Department Service:

Member, Faculty Nominations/Awards Committee, 2009–

Women in Computer Science Faculty Advisor, 2002–

Associate Chair, PhD Admissions Committee, 2003–2012; Chair, 2002–3 and 2018–19; Member, 2003–12; Member, PhD Admissions Committee focusing on diversity (2019–23)

Department Chair, 2012–18

Faculty Recruiting Committee 2004–12, 2016–17

MS NLP Track Advisor, 2010-12

CS Department Advocate/Ombudsperson, 2005–12

Department Bylaws Committee, 2007–8

Organized Department Luce nomination, 2007–8

Women in Computer Science and Engineering, Faculty Advisor, 2006-7

Courses Taught:

COMS 6998 Advanced Topics in Spoken Language Processing, 2019–

EECS 6898 From Data to Solutions (with Shih-fu Chang), 2012–19

COMS 4706 Spoken Language Processing, 2004–13 (some with CVN)

COMS 6998 Advanced Natural Language Processing: Speech Research and Technology, 2004

COMS 6998 Topics in Speech Processing: Computational Approaches to Emotional Speech, 2011

COMS 4705 Introduction to Natural Language Processing, 2003–7 (some with CVN)

PhD Advisor, Columbia University: Lin Ai, Chris Alberti (DES 2023), Debasmita Bhattacharya, Fadi Biadsy (PhD 2011), Nishmar Cestero, Run Chen, Yu-Wen Chen, Erica Cooper (PhD 2019), Robert Coyne (PhD 2017), Frank Enos (PhD 2008), Ziwei (Sara) Gong, Agustín Gravano (PhD 2009), Rivka Levitan (PhD 2014), Sarah Ita Levitan (PhD 2019), Jackson Liscombe (PhD 2008), Sameer Maskey (PhD 2008), Shimei Pan (PhD 2001), Anna Prokofieva, Andrew Rosenberg (PhD 2009), Rose Sloan, Victor Soto Martínez (PhD 2020), Morgan Ulinski (PhD 2019), Zixiaofan (Brenda) Yang (PhD 2021).

Postdoctoral Researchers: Martin Jansche, Stefan Benus, Jennifer Venditti, Sarah Ita Levitan

Dissertation Committees:
Columbia: Olivia Winn (2023), Weiyan Shi (2023), Max Chen;Emily Allaway, Elspeth Turcan, Brian Chen; Tariq Alhindi (2022), Weiyan Shi (2022), Daniel Li (2022), Yi Luo (2021), YiSakhar Alkheref (2020), Chris Hidey (2020), Chris Kedze (2020), Noura Farra (2019), Jessica Ouyang (2019), Daniel Bauer (2017), Or Biran (2016), Sara Rosenthal (2015), Vinodkumar Prabhakaran (2015), Kapil Thadani (2015), Weiyun Ma (2014), Lauren Wilcox Patterson (2013), David Elson (2012), Kristen Parton (2012), Sean White (2009), Alexander Haubold (2008), Maryam Kamvar (2008), Marios Athineos (2007), Michel Galley (2007), Elena Filatova (2007), Gabor Blasko (2007), Ani Nenkova (2006), Smaranda Murasan (2006), Lijun Tang (2006), Pablo Dubuoe (2005), Noemie Elhadad (2005), David Evans (2005), Regina Barzilay (2003), Min Kan (2002), Michael Elhadad (1992).
Elsewhere: Joanna Kruyt, Slovenska technicka univerzita v Bratislave (2023); Andreas Weise, CUNY (2022); Yuewen Cao, Chinese University of Hong Kong (2022); Subhadarshi Panda, CUNY (2022); Simone Fuscone, Aix-Marseille U (2021); Huyen Nguyen, Erasmas University Rotterdam, 2021; Fahad al-Ghamdi, GWU (2019); Kevin Lenzo, CMU (2017); Sandrine Brognaux, Université catholique de Louvain-la-Neuve (2015); Luciana Lucente, Universidad Estadual de Campinas (2012); Brian Langner, CMU (2010); Svetlana Stenchicova, Stony Brook (2009); Gabriel Murray, Edinburgh (2008); Hagen Soltau, CMU and Karlsruhe University (2005); Elizabeth Meddeb, Columbia Teachers College (2004); Raul Fernandez, MIT Media Lab (2003); Joachin Gustafson, KTH (Stockholm) (2002) (faculty opponent); Jinmook Kim, University of Maryland (2001–); Jeff Reynar, University of Pennsylvania (1998); Janet Cahn, MIT Media Lab (1998); Christine Nakatani, Harvard (1997).

Member: National Academy of Engineering, American Association of Arts and Sciences, Association for Computational Linguistics (ACL), American Association for Artificial Intelligence (AAAI), American Philosophical Society (APS), Association for Laboratory Phonology, Association for Computing Machinery (ACM), Institute of Electrical and Electronics Engineers (IEEE), International Speech Communication Association (ISCA), Linguistic Society of America.

Patents

U. S. Patent # 7,664,636,"System And Method For Indexing Voice Mail Messages by Speaker," Julia Hirschberg, Sarangarajan Parthasarathy, Aaron Rosenberg, and Stephen Whittaker) (issued 2/16/10)

U. S. Patent #7,664,235, "Method and apparatus for voice mail notes," Julia Hirschberg, Lawrence Jackel, and Stephen Whittaker (issued 2/16/10); #7995711 (issued 8/9/2011)

U. S. Patent #7,225,126, "System and method for processing speech files," Julia Hirschberg and Stephen Whittaker (issued 5/29/07)

U. S. Patent #6,173,262, "Text-to-speech system with automatically trained phrasing rules," Julia Hirschberg (issued 1/9/2001)

U. S. Patent #6,003,005: "Text-to-speech system and a method and apparatus for training the same based upon intonational feature annotations of input text," Julia Hirschberg (issued 12/14/1999)

U. S. Patent #10025848,"System And Method For Processing Speech Files," Julia Hirschberg and Stephen Whittaker (issued 7/17/2018)

"System And Method For Processing Voicemail Messages Using Automatic Speech Recognition", Julia Hirschberg, Lawrence Jackel and Stephen Whittaker (filed 03/13/2001)

"Method And Apparatus For Voice Mail Notes," Julia Hirschberg, Stephen Greenspan, and Stephen Whittaker (filed 12/16/1999)

"System And Method For Gisting, Browsing and Searching Voicemail Using Automatic Speech Recognition," Julia Hirschberg and Stephen Whittaker (filed 12/08/1999)

"Spoken Content Based Audio Navigation," John Choi, Julia Hirschberg, Christine Nakatani, and Stephen Whittaker (filed 07/23/1999)

Current Funding

co-PI DARPA Cross-Cultural Communication and Understanding: CHARM: Cross-Cultural Harmony through Affect and Response Mediation, 1/1/2022-12/31/2024

PI Amazon gift for Conveying Empathy in Spoken Language, 1/5/202212/30/2022

co-PI AFOSR "Automatic Detection and Analysis of Extremist Video Content on Social Media using Text, Speech, and Visual Features," (with Sarah Ita Levitan, CUNY) Trust and Influence Program, 9/30/20–9/29/23.

DARPA SemaFor: "Semantic Information Defender (SID)," (Lead Kitware, Inc.), 7/1/20–12/31/23

PI Northeastern University Center for Inclusive Computing, "Advancing Women in Computing at Columbia and Barnard," (with Rebecca Wright, Barnard), 12/1/2020–12/31/2021.

co-PI David and Helen Gurley Brown Institute at Stanford and Columbia Journalism School 2020–2021 Magic Grant: "Automatic Identification of Online Harassment of Women Journalists," Co-PI Sarah Ita Levitan, 7/1/20–6/30/21.

PI AFOSR "Spoken Indicators of Trust Across Cultures," Trust and Influence Program, 11/15/17–10/14/20.

PI NSF CISE Small "Creating Text-to-Speech Synthesis for Low Resource Languages," 9/1/17–8/31/20.

PI Google Faculty Research Award: "Identifying Code-Switching in Text and Speech Corpora," 9/1/2015–8/31/16.

Prior Funding

co-PI 2018 Tow Center Research Fellowship: "Linguistic Indicators of Trust in Written News," Co-PI Sarah Ita Levitan, 7/1/2018–6/30/19

co-PI DARPA Lorelei: "SEEM: Inferring Sentiment bElief pErspective and eMotion in Low Resource Languages," co-PI (PI Kathy McKeown), 9/1/2015–10/30/2019.

co-PI IARPA Material "System for Cross-Language Information Processing, Translation, and Summarization (SCRIPTS)," 9/25/17–8/31/21.

PI NSF EAGER: "Creating Speech Synthesizers for Low Resource Languages," PI, 9/1/2015–8/31/17.

CRA/CCC NSF: NYC ASCENT: " Advancing Computer Science Careers through Enhanced Networking and Training: Implementing Best Practices in the Computer Science and Engineering Postdoc in New York City ," co-PI (PI: Shih-Fu Chang), 5/1/14–4/30/17. Leading consortium of NYU, Cornell, and CUNY.

PI NSF IGERT: "From Data to Solutions: A New PhD Program in Transformational Data and Information Sciences Research and Innovation," PI (co-PIs Shih-fu Chang, Assaf Zeevi, Noemi Elhadad, Andrew Rosenberg), 9/1/12–8/31/17.

co-PI, DARPA DEFT: DRATS: "Detecting Relations and Anomalies in Text and Speech," co-PI (PI Owen Rambow), 11/13/12–05/12/17.

co-PI, NSF CNS "Collaborative Research: CI-P: A Repository for Annotating Multilingual Code Switched Data," subcontract to George Washington University (PI: Mona Diab), 9/1/12–8/31/16.

NSF "CRI: CI-P: Collaborative: Reciprosody - A Repository for Prosodically Annotated Material," 9/1/12–8/31/16 PI (with Andrew Rosenberg, CUNY, and Stephanie Shattuck-Hufnagel, MIT).

PI, NSF DEL "Using Computational Tools to Facilitate Corpus Collection and Language Analysis in Arrernte," 6/1/12–9/30/14 PI (co-PI Owen Rambow, CCLS)

co-PI, IARPA "BABEL – Addressing the Language Deluge: Lorelei," co-PI (PI Owen Rambow), 3/4/2012–3/3/2017, subcontract to IBM.

R01 grant (LM009886), "Bridging the Semantic Gap between Research Eligibility Criteria and Clinical Data," Senior Personnel (PI Chunhua Weng), 07/01/12–06/30/16.

Columbia PI, DARPA BOLT ("Broad Operational Language Translation"), 9/15/2011–12/31/14, subcontract to SRI International.

PI, AFOSR, "Identifying Deceptive Speech Across Cultures," 2011–2016, PI (co-PIs Michelle Levine, Columbia, and Andrew Rosenberg, Queens College, CUNY).

PI, NSF IIS 0904361, "RI-Medium: Collaborative Research: From Text to Pictures," 6/10/09–6/9/12 (joint work with Owen Rambow, CCLS, Columbia University, and Richard Sproat, OHSU).

PI, NSF IIS EAGER 1145505, "Using Social Media and Crowdsourcing to Create a New Affect Dictionary," 9/1/11–8/31/12.

Co-PI, NSF CNR 1059260, "Summarizing Opinion and Speaker Attitude in Speech," 2/1/11–1/31/14 (joint work with Ani Nenkova, University of Pennsylvania, and Yang Liu, University of Texas at Dallas).

co-PI, NSF CNR 0958440, "Creation of an Annotated Repository of Multilingual and Multigenre Code Switched Data for Several Language Pairs," co-PIs Mona Diab, Columbia, and Thamar Solorio, University of Alabama, 3/1/10–9/30/11.

PI, "Novel Information Gathering and Harvesting Techniques for Intelligence in Global Autonomous Language Environments," DARPA, subcontract to IBM, 9/1/09–6/30/10.

Co-PI Simons Foundation:"Characterizing ASD Phenotype by Multimedia Signal Processing and NLP," PI Noemie Elhadad, Columbia, 7/1/09-6/30/11.

PI NSF IIS-Robust Intelligence 0803148: "RI-Medium: Collaborative: Corpus-Based Studies of Lexical, Acoustic-Prosodic, and Discourse Entrainment in Spoken Dialogue," co-PI Ani Nenkova, University of Pennsylvania, 9/1/08–8/31/11.

PI NSF IIS-HLC 053456: "Collaborative Research: Translating Prosody in an English/Chinese Language Tutoring System," (with Chilin Shih and Gary Cziko, University of Illinois), 2/15/06–2/14/11

co-PI DARPA GALE: "Novel Information Gathering Intelligence in Global Autonomous Language Environments," co-PI Kathleen McKeown, Columbia (Lead: SRI International; then IBM) 9/01/05–2011.

PI NSF IIS-0325399, "ITR: Recognizing and Understanding Emotion in Speech," co-PIs Jennifer Venditti-Ramprashad (Columbia), Bryan Pellom nd Laura Michaelis (Univesity of Colorado Boulder), Elizabeth Shriberg (SRI), 9/1/03–8/31/10.

PI NSF IIS-0328295: "Collaborative Research: Monitoring Student State in Tutorial Spoken Dialogue," co-PI Jennifer Benditti-Ramprashad (Columbia) with Diane Litman (University of Pittsburgh), 6/1/03–5/31/06.

PI, NSF IIS-0307905, "Dialogue Prosody in Interactive Voice Response Systems," (with Gregory Ward, Northwestern University). 6/1/03–5/31-08

co-PI, DARPA MADCAT: "Multilingual Multidocument Information Tracking and Summarization," 3/1/04–2/28/05, PI: Kathleen McKeown.

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Refereed Publications

1. Ada Defne Tur and Julia Hirschberg, "President Botrick: An Analysis of Deep Learning-Based Conversational AI Models to Identify and Create Influential Political Speeches," AAAI-23 Workshop on Artificial Intelligence and Diplomacy, Washington D. C.

2. Sarah Ita Levitan and Julia Hirschberg, Believe It or Not: Acoustic-Prosodic Cues to Trust and Mistrust in Spoken Dialogue, Speech Prosody 2022, Lisbon.

3. Rose Sloan, Adaeze Adigwe, Sahana Mohandoss and Julia Hirschberg, Incorporating Prosodic Events in Text-to-Speech Synthesis, Speech Prosody 2022, Lisbon.

4. Zixioafan Yang, Lin Ai, Julia Hirschberg, "What makes people laugh? Multimodal Humor Detection and Analysis in Videos," Asilomar 2021.

5. Zixiaofan Yang, Shayan Hooshmand, Julia Hirschberg, "CHoRaL: Collecting Humor Reaction Labels from Millions of Social Media Users," EMNLP 2021 (Best Short Paper Award), Punta Cana, Dominican Republic.

6. Huyen Nguyen, Ralph Vente, David Lupea, Sarah Ita Levitan, Julia Hirschberg, "Acoustic-Prosodic, Lexical and Demographic Cues to Persuasiveness in Competitive Debate Speeches," Interspeech 2021, Brno.

7. Lin Ai, Run Chen, Ziwei Gong, Julia Guo, Shayan Hooshmand, Zixiaofan Yang, Julia Hirschberg, "Exploring New Methods for Identifying False Information and the Intent Behind It on Social Media: COVID-19 Tweets," Sixth International Workshop on Social Sensing (SocialSens 2021), ICWSM, Atlanta.

8. Zhengping Jiang, Jonathan Zomick, Sarah Ita Levitan, Mark Serper, and Julia Hirschberg, "Automatic Detection and Prediction of Psychiatric Hospitalizations From Social Media Posts," Workshop on Computational Linguistics and Clinical Psychology (CLPsych) 2021, NAACL 2021.

9. Andreas Weise, Vered Silber-Varod, Anat Lerner, Julia Hirschberg and Rivka Levitan, "Talk to me with left, right, and angles: Lexical entrainment in spoken Hebrew dialogue," EACL 2021.

10. Ishaan Arora, Julia Guo, Sarah Ita Levitan, Susan E. McGregor, "A Novel Methodology for Developing Automatic Harassment Classifiers for Twitter," Workshop on OnLine Abuse and Harms, EMNLP 2020.

11. Zhengping Jiang, Sarah Ita Levitan, Jonathan Zomick, and Julia Hirschberg, "Detection of Mental Health Conditions from Reddit via Deep Contextualized Representations," 11th international Workshop on Health Text Mining and Information Analysis (LOUHI 2020), November 2020.

12. Ramiro H. Galvez, Augustin Gravano, Stefan Benus, Rivka Levitan, Marian Trnka, and Julia Hirschberg, "An empirical study of the effect of acoustic-prosodic entrainment on the perceived trustworthiness of conversational avatars," *Speech Communication* 124, November 2020.

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Book Chapters and Edited Volumes

1. 2019. Andrew Rosenberg and Julia Hirschberg, "Prosodic Aspects of the Attractive Voice," in *Voice Attractiveness*, ed. M. Barkat-Defradas, B. Weiss, J Trouvain and J Ohala. In press.

2. 2017. "Pragmatics and Prosody," in *Oxford Handbook of Pragmatics*, ed. Y. Huang. Oxford University Press.

3. 2010. "Deceptive Speech: Clues from Spoken Language," in *New Trends in Speech Based Interactive Systems*, ed. K. Jokinen and F. Chen, Springer-Verlag.

4. 2005. "Speech Technology – Output: Prosody in TTS", Encyclopedia of Language and Linguistics, 2nd edition.

5. 2003. "Pragmatics and Intonation," *Handbook of Pragmatics*, ed. L. Horn and G. Ward, Blackwell.

6. To appear. J. Hirschberg, "The Role of Intonation in Spoken Dialogue Systems", in *Automated Spoken Dialogue Systems*, ed. S. Luperfoy. MIT Press.

7. 2001. J. Hirschberg, "Training Accent and Phrasing Assignment on Large Corpora for Text-to-Speech," in *Data-Driven Techniques in Speech Synthesis*, ed. R. Damper. Kluwer.

8. 1999. M. Swerts and J. Hirschberg, editors, *Language and Speech: Special Double Issue on Prosody and Conversation*, 41(3-4).

9. 1996. J. van Santen, R. W. Sproat, J. Olive, and J. Hirschberg (Eds.). *Progress in speech synthesis*. Springer Verlag, New York.

10. 1990. J. Pierrehumbert and J. Hirschberg, "The Meaning of Intonational Contours in the Interpretation of Discourse," in *Intentions and Plans in Communication and Discourse*, P. Cohen, J. Morgan, and M. Pollack, eds., MIT Press, pp. 271–311.

Invited Talks, Interviews, Workshops, and Tutorials

2023. "Speech and Natural Language Processing," Girls Who Code, Brooklyn Technical High School, New York, January 11.

2022. "Detecting Intent in Misinformation and Disinformation in Social Media," Plenary Speaker, IEEE WIFS (Workshop on Information Forensics and Security, December 15.

2022. "Speech and Natural Language Processing," Emerging Scholars Program, November 18.

2022. "Conveying Empathy in Conversation," University of Rochester, November 14.

2022. "Trusted and Mistrusted Speech: Acoustic-Prosodic and Lexical Cues to the Speech Humans Trust or Do Not," Meta, September 19.

2022. "My Career Path and Research in Prosodic Entrainment in Dialogue," ICASSP 2022: PROGRESS22, May 22.

2022. "Trusted and Mistrusted Speech: "Acoustic-Prosodic and Lexical Cues to the Speech Humans Trust – and the Speech They Do Not?" Plenary Speaker, AISV: Associazione Italiana di Scienze della VOce, May 6.

2022. Interviewing for Academic Professions, Global Women in NLP Second Gathering, March 27.

2022. Conveying Empathy in Conversation, Distinguished Lecture for CAIT, March 23.

2022. BEARS (Better, Enhance, and Advance Research Series) Faculty Roundtable, Barnard College, March 9.

2021. What Makes a Speaker Sound Charismatic? Producing and Perceiving Charismatic Speech, Cornell University, November 29.

2021. Columbia Diversity Programs, Center for Inclusive Learning (CIC) 2021, November 18.

Moderator, MIT Rising Stars Panel on How do Search Committees Work?, October 15.

2021. "My Early Career and What I've Learned Since," 1st Early Career Researcher Annual Gathering @Interspeech 2021 moderator, Young Female Researchers in Speech Workshop Senior Panel; mentoring session on publishing for PhDs, August 30.

2021. "Who Do We Trust in Dialogue Systems?" SIGDIAL 2021, July 31.

2021. "Spoken Language Processing," Penn State University's Game Changers Virtual Summer Camp for Middle School Students, June 24.

2021. "Conversational Avatars and Empathetic Conversations," Phonetics and Phonology in Europe (PaPE21), June 21.

2021. "Research in NLP and Spoken Language Processing," Emerging Scholars Program Research Symposium, April 9.

2021. "Entrainment, Trust, and Empathetic Conversation," Alexa Prize Summit, March 31.

2021. CompilHER (https://anchor.fm/compilher.) Podcast on females in CS for CS majors and graduates from Barnard and Columbia, February 24.

2021. CS Female Faculty Focus interview, February 12.

2021. "How do we know who to trust? Text and Speech-based Cues in Deception Detection," Invited talk, Johns Hopkins University, February 3.

2021. "Who do you Trust? Cues to Deception and Trust in Text and Speech," Keynote speaker, 11th Annual Computing and Communication Workshop and Conference (IEEE CCWC) 2021, January 30.

2020. Thinkumaker Interview by Lori Lennon, November 18.

2020. "Gender, Politics, and Charisma: Speaking Style in Political Speech," New York Academy of Sciences, November 13.

2020. "Amazon Initiation Talk," Amazon, November 3.

2020. "Whom Do You Trust: Trusted vs. Mistrusted Speech," Facebook, April 30.

2020. "Entrainment and Deception in Text and Speech: Language and Social Impact," TU Delft, March 10.

2020. "Prosodic Entrainment in Dialogue: Language and Social Impact," Amazon, February 27.

2019. "What Makes a Speaker Charismatic: Perception and Production of Charismatic Speech," Keynote Speaker, ASRU 2019, Singapore, December 15.

2019. "Charismatic Speech: Political, Demographic, and Cross-Cultural Issues," Stanford Linguistics Colloquium. October 29.

2019. "Producing and Perceiving Charismatic Speech," NYU AI Workshop on Machine Learning and AI for College Students. October 27. 2019. "Truth or Lie: Spoken Features of Truth or Lie and of Trusted and Mistrusted Speech," Department of Defense Webinar (with Sarah Ita Levitan). July 25.

2018. "Entrainment in Deceptive and Non-Deceptive Speech from Standard American English and Mandarin Chinese Native Speakers," S.O.U.N.D Workshop on Automatic Methods for Analyzing and Predicting Social Structure from Diverse Auditory Data Sets. Bar Ilan. December 17.

2018. "AI for Better Living," Special Session at the American Philosophical Society Fall Meeting. November 9. Session organizer and speaker.

2018. "Truth or Lie? Spoken Indicators of Deception in Speech," EMNLP 2018. Plenary Speaker. Brussels, November 2.

2018. "AI and Cultural Bias: Intended and Unintended Meaning," Artificial Intelligence and the Barrier of Meaning, Santa Fe Institute, October 10.

2018. "Detecting Deceptive Speech: Humans vs. Machines," ICASSP 2018, Plenary Speaker, Calgary, April 17.

2018. "Interviewing for Academic Positions," CRA-W Grad Cohort 2018, San Francisco, April 14.

2018. "Deception and Trust in Human-Human Interaction," (with Angel Maredia and Michelle Levine), Workshop on Lying, Deception, Pretense and Noncooperative Communication, Columbia, March 24.

2018. "Preparing Your Thesis Proposal & Becoming a PhD," (with Lori Pollock), CRA-W Grad Cohort 2018, San Francisco, April 13.

2018. "Planning Your Research Career," CRA Career Mentoring Workshop, Washington D.C., February 26.

2017. "Prosodic Entrainment in Dialogue: Language and Social Impact," James F. Kelly Distinguished Lecture, NLP Distinguished Lecture Colloquium, Pennsylvania State University, December 1.

2017. "Identifying Deceptive Speech Across Cultures: Native Language, Personality and Gender," USC, November 6.

2017. "Speech Generation and Interpretation for Low Resource Languages," NY IEEE Distinguished Lecture, LIU-Brooklyn, November 1.

2017. "Columbia Speech Lab Research: Deceptive Speech," SEAS Parents' Council, October 14.

2017. "Prosodic Entrainment and Social Impact," Keynote Speaker, 2nd IEEE International Conference on Companion Technology, Ulm, Germany, September 13.

2017. "Intonation and Computation," Linguistic Society of America 2017 Summer Institute, Lexington KY, July 6-31.

2017. "Prosodic Entrainment Across Cultures," Fillmore Professor of the 2017 Linguistic Society of America Summer Institute, Lexington KY, July 6.

2017. "Identifying Sentiment and Situation Frames in Low Resource Languages," Language Technology Institute's Colloquium, CMU, April 28.

2017. "Multimedia Research Challenges for the Next Ten Years: Human-Machine Interaction," NSF Workshop on Multimedia Research Challenges for the Next Ten Years, Arlington VA, March 30-31.

2017. Prosodic Entrainment Across Cultures, Second Intonation Workshop, University of Toronto, 17 February.

2016. Identifying Sentiment and Emotion in Low Resource Languages, 4th International Conference on Statistical Language and Speech Processing, 11 October, Pilsen, Czechia.

2016. "Deceptive Speech Across Gender and Culture," Distinguished Speaker Series, University of Buffalo, 31 March.

2015. "Text-to-Speech for Low-Resource Languages," University of Mons, Belgium, 14 December.

2015. Academic Leadership: The three s*** (Screw-ups, Surprises, and Successes). Panel at Grace Hopper Celebration of Women in Computing, 14 October.

2015. "Preparing for Promotion: The Tenure Process," Grace Hopper Celebration of Women in Computing, 14 October.

2015. "Gender, Ethnicity, and Personality Factors in Deceptive Speech Detection," NYU-CSE, 2 October.

2015. "Entrainment in Multiple Prosodic Dimensions, Gender, and Social Variables," University of Lisbon, 2 July.

2015. "Clarification in Spoken Dialogue Systems," Engineering Excellent Program, Nuance Communications, 23 June.

2015. "Appropriate and Inappropriate Clarification Questions in Spoken Dialogue Systems," MIT CSAIL Human Language Technology (HLT) Distinguished Lecture Series, 25 February.

2014. "Next generation SLT scientists and engineers," Panel at SLT 2014, 9 December.

2014. "NYC ASCENT: Advancing Computer Science Careers through Enhanced Networking and Training: Implementing Best Practices in the Computer Science and Engineering Postdoc in New York City," Panel: "Refining the Computer Science Postdoc Experience," Snowbird, Utah, 22 July.

2014. "Dealing with Stakeholders," Panel, Snowbird, Utah, 20 July.

2014. "Multiple Dimensions of Entrainment in Dialogue," International Symposium on Prosody to Commemorate Gsta Bruce, Lund, 2 June.

2014. "Special Session on Affective Social Speech Signals," Panel at Speech Prosody 2014, 20 May.

2014. Prosodic and Social Dimensions of Entrainment, Brain & Language Research Institute LPL - CNRS & Universit d'Aix-Marseille, 18 March.

2014. Planning Your Research Career, CRA Career Mentoring Workshop, Washington D.C., 24 February.

2013. Clarification in Spoken Dialogue Systems: Modeling User Behaviors, Errare Workshop: Errors by Humans and Machines in multimedia, multimodal and multilingual data processing (keynote), CNRS, France, 21 November.

2013. NY Women in STEM panel, 11 November.

2013. Clarification in Spoken Dialogue Systems: Modeling User Behaviors, University of Rochester CS Department Colloquium, 4 November.

2013. Preparing for Promotion, Grace Hopper Celebration of Women in Computer Science, 2 October.

2013. Clarification in Spoken Dialogue, University of Lisbon, 17 May.

2013. Clarifying Misrecognitions in Spoken Dialogue Systems, Symposium in Honor of David House, KTH, 7 May.

2013. "Preparing Your PhD Proposal," Invited Speaker, CRA-W Grad Cohort Workshop, 5-6 April. 2013. Panel on Incremental TTS, Workshop on Simultaneous Interpretation and Multimodal Translation, AT&T Labs, 25 March.

2013. "From 'If people arent happy here, they should find some place where they are happy' to 'What problem? We have 4 women in our department already': Industry to Academe, 20 March.

2013. "Identifying Deception and Charisma Computationally," Hong Kong University of Science and Technology Institute for Advanced Study Distinguished Speaker Series, 19 March.

2013. "What Siri Can't Do: Creating Clarification Questions for Spoken Dialogue Systems," University of Illinois Chicago Distinguished Speaker Series, 9 March.

2013. ITT Madras Tutorial speaker at Winter School 2013 on Statistical Parametric Speech Synthesis, 22-25 February.

2012. Panel on "The Future of SLT Academic Research," IEEE Workshop on Spoken Language Technology, Miami, 3 December.

2012. "Computational Linguistics Analysis of Charismatic Speech: Cross-Cultural and Political Perspectives," Workshop on Meaning: Language and Socio-cultural Processes," Columbia University, 29 October.

2012. "Did you feed the animals?" , Invited speaker at JoshiFest: Symposium to Honor Aravind Joshi, University of Pennsylvania, 22 October.

2012. "When do we say Mhmm?: Backchannel Feedback in Dialogue, " Invited speaker at Interdisciplinary Workshop on Feedback Behaviors in Dialog, Skamania Lodge, 7 September.

2012. "Prosodic Dimensions of Entrainment in Dialogue," Bielefeld University (Invited speaker, Workshop on Alignment in Communication,19 July.

2012. "Prosodic Dimensions of Entrainment in Dialogue," Toyota Technology Institute, Keynote talk at Illinois Speech Day, 7 May.

2012. "Entrainment in Prosody, Turn-taking and Social Behaviors," University of Toronto, 13 January.

2011. "Prosodic Dimensions of Entrainment in Dialogue," Experimental and Theoretical Approaches to Prosody 2, Montreal, 23 September.

2011. "Speaking More Like You: Entrainment in Conversational Speech," ISCA Medal for Scientific Achievement, Florence, 28 August.

2011. "Identifying Deception from Speech," Columbia Linguistics Society, 25 February.

2011. "Entrainment to the Other in Conversational Speech," Center for Language and Speech Processing, Johns Hopkins University, 22 February.

2010. "Deception Detection from Speech: Automatic Methods vs. Human Judges," Computer Science Seminar Series, University of Texas at Dallas, 3 December.

2010. "WordsEye: Creating 3D Scenes from Natural Language Text," LTI Colloquium, Carnegie Mellon University, 12 November.

2010. "Prosody and Computational Linguistics," Radcliffe Exploratory Seminar on Prosody and Dialog in Language and Music, Radcliffe Institute for Advanced Study, 6 November.

2010. "How Do We Know When to Speak? Acoustic, Prosodic, and Lexico-Syntactic Correlates of Turn Management in Spoken Dialogue Systems," TABU, 4 June. 2010. "Knowing When to Speak: Turning Management in Spoken Dialogue Systems," Columbia Linguistics Society, 26 March.

2010. "Deceptive Speech: Automatic Detection Methods vs. Human Judges," University of Pennsylvania, IRCS, 5 February.

2009. "Identifying Deception from Speech," User Interface Technologies Seminar Series, Watson Research Center, IBM Yorktown Heights, 17 November .

2009. "Modeling Turn-Taking Behavior in Spoken Dialogue Systems," Future Knowledge Speakers Series, Center for Digital Humanities, University of South Carolina, 5 November.

2009. "Detecting Deception from Speech: Humans vs. Machines," Linguistics Program, University of South Carolina, 6 November.

2009. "Automatic Recognition of Emotion in Speech," AVIOS NY/NJ/CT Local Chapter Meeting, 17 September.

2009. "Recognizing Speaker State: Emotion, Charisma, Deception," SpeechTEK 2009, New York, August 24.

2009. "Turn-Taking vs. Backchanneling in Spoken Dialogue Systems," Invited talk, DiaHolmia 2009, Stockholm, 24 June.

2009. "Recognizing and Conveying Emotion in Speech," Guest Professor Lecture, KTH, 12 May.

2009. "Taking Turns and then Giving Them Up: Turn-taking Behavior in the Columbia Games Corpus," KTH CSC/TMH Seminar Series, 20 March.

2009. "Acoustic, Prosodic, and Lexical Cues to Deception in Speech," The Chinese University of Hong Kong, 11 March.

2009. "Entrainment to Others in Conversational Speech," invited talk, Tilburg University, TiCC Colloquium, 14 January.

2008. "Adapting to the Other: Dimensions of Entrainment in Conversational Speech," invited talk, Swedish Language Technology Conference (SLTC-08), KTH, 21 November.

2008. "Deception Detection from Speech: People vs. Machines," Gothenburg University, Institutionen för lingvistik seminar series, 11 November.

2008. "The Meaning of Intonational Contours: Proposals and Experiments," Lund University, Guest Lecture in "General Linguistics: Pragmatics – Context-dependent Meaning," 10 October.

2008. "Detecting Deception in Speech: Human vs. Machine Performance," KTH CSC/TMH Seminar Series, 12 September.

2008. "A Question of Questions: Prosodic Cues to Question Forma nd Function," Constraints in Discourse Workshop, 1 August.

2008. "Speaking More Like You: Lexical, Acoustic/Prosodic, and Discourse Entrainment in Spoken Dialogue Systems," SIGdial 2008, 20 June, Columbus.

2008. "Spoken Cues to Deception," LREC 2008, Marrakech, 29 May.

2008. "Spoken Cues to Deception," MIT Artificial Intelligence Seminar, Cambridge, 8 April.

2007. "Context and Prosody in the Interpretation of Cue Phrases in Dialogue," KTH, 22 November.

2007. "Charisma in English and Arabic Political Speech," Distinguished Lecture Series, Stony Brook University, 9 November.

2007. "Detecting Deceptive Speech," Johns Hopkins University Center for Language and Speech Processing Spring Seminar Series, 2 October.

2007. "Deception in Speech," Tilburg University, 24 August.

2007. "Perceptions of Charisma from Spoken Language in Standard American English and Palestinian Arabic," SRI Star Lab Colloquium, 26 July.

2007. "The Form and Function of Cue Phrases in Spoken Dialogue," Workshop on Conversational Games and Strategic Inference, LSA Summer Institute, Stanford, July 11.

2007. "Spoken Dialogue Systems," LSA Summer Institute, Stanford, 6-27 July.

2007. "Credibility Assessment Research Summit CARS)," sponsored by Counterintelligence Field Activity (CIFA) and the Technical Support Working Group (TSWG), May 22-24, organized by Frank Horvath, Defense Academy for Credibility Assessment (DACA).

2007. "Recognizing and Conveying Speaker State," Lockheed Martin, March 26.

2007. "Detecting Deception form Speech: Acoustic/Prosodic and Lexical Cues," Distinguished Seminar Series 2006-07, Computer Science and Engineering, Lehigh University, March 1.

2006. "Charisma Across Cultures: Acoustic/Prosodic and Lexico-Syntactic Correlates of Charismatic Speech," Collaborative Research Center Plenary Lecture, Stuttgart, November 24.

2006. "Recognizing and Conveying Speaker State Prosodically," Prosody 2006, May 2.

2005. "Recognizing a Speaker's Emotional State," ETS, October 7.

2005. "Charismatic Speech: Acoustic, Prosodic and Lexical Cues in English," Research Challenges in Speech Technology," KTH, Stockholm, October 13.

2005. "'From 'If people aren't happy here, they should find some place where they **are** happy' to 'What problem? We have 6 women in our department already': Industry to Academe," WOWINC: Work Opportunities for Women in Computing, NYU, September 23.

2005. Invited participant, "Behavioral Aspects of Security Workshop", NSF, June 26-28, Mark Frank, SUNY Buffalo, organizer.

2005. "Recognizing a Speaker's Emotional State," SUNY Buffalo, Center for Cognitive Science, April 6, 2005.

2005. "Recognizing 'Emotional' Speech," Karlsruhe University, February 14.

2004. "Experiments in Recognizing Emotional Speech," CUNY CS Department Colloquium, October 21.

2004. "Intonational Overload: Uses of the H* !H* L- L% Contour in Read and Spontaneous Speech," Laboratory Phonology 9, June 26, 2004.

2004. "Distinguishing Deceptive from Non-Deceptive Speech: Acoustic, Prosodic, and Lexical Cues," Workshop on Detecting Deception in Language and Cultural Context, University of Maryland Center for Advanced Study of Language, June 17.

2003. Symposium on Intonation and Processing ICPhS 2003, Barcelona.

2003. "Acoustic Cues to Emotional Speech," PROPOR 2003, Faro, Portugal, 26-7 June.

2003. "Experiments in Emotional Speech," ISCA & IEEE Workshop on Spontaneous Speech Recognition, Tokyo, 15 April.

2003. "Intonational Variation in Spoken Dialogue Systems," Wilem Mathesius Courses, Charles University, Prague, March 18-21.

2003. "Browsing and Searching Audio Data: SCANMail," University of Pittsburgh, 24 January.

2002. "Seeing What is Said: New Methods for Extracting Information from Speech," Computer Science Seminar, Institute for Applied Mathematics and Systems, Universidad Autonoma de Mexico, December 6.

2002. "Navigating Audio Like Text: Browsing and Searching Voicemail Messages in SCANMail," Fall 2002 distinguished Lecture Series, Department of Computer Science & Institute for Advanced Computer Studies, University of Maryland, 2 December.

2002. "SCANMail: Audio Browsing and Retrieval for Voicemail," IBM Multimedia Seminar, June 19.

2002. "The Pragmatics of Intonational Meaning," Speech Prosody 2002, Aix-en-Provence, 12 April.

2001. "Audio Browsing and Search in the Voicemail Domain," NLPRS-2001, Tokyo.

2001. "Meanings of Intonational Variation", Stonybrook University, November 5.

2001. "Intonational Variation in Spoken Dialogue Systems: Generation and Understanding," Wilem Mathesius Courses, Charles University, Prague, March.

2000. "Intonational Variation in Spoken Dialogue Systems: Generation and Understanding", 'Bullet Course' presented at the Kungl Tekniska Högskolan (KTH), Stockholm, September 12-14.

1999. "Communication and Prosody: Functional Aspects of Prosody," ESCA Workshop on Dialogue and Prosody, Eindhoven, September.

1999. "When Good Recognizers Go Bad: Identifying Prosodic Cues to Recognition Errors," Johns Hopkins Center for Language and Speech Processing Workshop Guest Lecture Series, July.

1999. "Intonation and Discourse Structure: Analysis, Generation, and Understanding"," Wilem Mathesius Courses, Charles University, Prague, March.

1998. "Prosody and Discourse Structure," Third Discourse Tagging Workshop, Chiba University, May 18.

1997. "Discourse and Dialogue Prosody: Theories of Intonational Meaning Above the Utterance Level," ESCA Tutorial and Research Workshop on Intonation: Theory, Models and Applications, Athens, September.

1996. "Intonation and Discourse Structure: The Boston Directions Corpus", Ohio State University, November 22.

1996. "To Speak....or not to Speak: The Role of Spoken Language in Multimodal Interfaces," KONVENS 96, Bielefeld, October.

1996. "Prosody in Spoken Dialogue," Course given at the Fourth European Summer School on Language and Speech Communication: Dialogue Systems, Technical University of Budapest, July.

1996. "Intonational Variation and Intonational Meaning'," Wilem Mathesius Courses, Charles University, Prague, April.

1996. "Intonation and Discourse Structure: The Pragmatics of Prosodic Variation," Interfaces of Grammar: Theoretical and Computational Aspects, Universitaet Stuttgart/Universitaet Tuebingen, October.

1996. "Learning from Human Performance: Corpus-Based Intonational Assignment in Text-to-Speech", Microsoft Research, March 11.

1995. "Prosodic and Other Acoustic Cues to Speaking Style in Spontaneous and Read Speech," Panel on Speaking Styles, XIIIth International Congress of Phonetic Sciences, Stockholm, August.

1995. Discourse: Linguistic, Computational, and Philosophical Perspectives, Center for Philosophy of Science, University of Pittsburgh, March 24-26 (invited participant).

1995. "Discourse Prosody", Tutorial Workshop on Discourse and Dialogue Prosody, Universitaet Stuttgart, February 13.

1994. "Intonation and Discourse Structure: New Evidence from a Task-Oriented Domain," Workshop on Prosody, Third International Conference on Spoken Language Processing, Yokohama, September.

1993. "Prosodic Variation for Text-to-Speech Synthesis," Special Session on Text-to-Speech, Acoustical Society of America, October 7.

1993. "Meaning beyond Words: Intonational Frontiers in Natural Language Processing," (plenary talk), IJCAI-93, Chambery, France, September 1.

1993. "Studies of Intonation and Discourse," (tutorial) ESCA Workshop on Prosody, Lund University, September.

1993. "Pragmatics and Intonation," (course) LSA Summer Institute, Ohio State University, June/July.

1993. ToBI Workshop on Prosodically Transcribed Data and Transcription Tools for Linguistics Research, Columbus OH, June (invited participant).

1993. "Linguistic Cues to Discourse Segmentation", NATO Advanced Research Workshop on Burning Issues in Discourse, Maratea, Italy, April.

1993. "Structuring Discourse Intonationally", CMU, March 30.

1993. "Intonation and Discourse Structure", University of Rochester, March 17.

1992. "Modeling of Contextual Information for Text-to-Speech Systems," Workshop on Prosody and Discourse, Second International Conference on Spoken Language Processing, Banff, October 13.

1992. "Intonation in Natural Language Understanding and Generation," (tutorial) Second Pacific Rim International Conference on AI, Seoul, September.

1992. Second Prosodic Transcription Workshop, NYNEX, May (invited participant).

1992. "Intonational Correlates of Discourse Structure," University of Arizona, Tucson, April 17.

1992. "Predicting Intonational Boundaries in Spontaneous Speech," Hebrew University, Jerusalem, March 10.

1992. "Intonational Correlates of Local and Global Discourse Structure," NY Area Seminar on Computational Linguistics, CUNY, January.

1991. "Predicting Intonational Boundaries from Text," CUNY, December.

1991. "Computational Approaches to Intonation and Discourse," (tutorial) The Third European Summer School in Language, Logic and Information, Universitaet des Saarlandes, Saarbruecken, August 12-23.

1991. MIT Prosodic Transcription Workshop, August (invited participant).

1991. NSF Conference on the Grammatical Foundations of Prosody and Discourse, Santa Cruz, June/July.

1991. "Intonation in Spoken Language Systems," (tutorial) 29th Annual Meeting of the Association for Computational Linguistics, June 18.

1991. (invited participant) University of Illinois Workshop on Computational Linguistics and Linguistic Theory, Champagne-Urbana, June 13-15.

1991. "Predicting Intonational Boundaries Automatically from Text," Bell Communications Research, Morristown NJ, April 17.

1991. "Intonational Boundaries and Syntactic Structure", Workshop on Current Issues in Natural Language Processing, Center for Cognitive Science, University of Texas, Austin, February 15.

1990. "Scalar Implicature," Princeton Cognitive Science Group, 22 May.

1990. "Assigning Pitch Accent in Synthetic Speech," MIT, May 2.

1989. "Correlating Pitch Range Variation and Topic Structure in Discourse," AAAI Symposium on Spoken Language Systems, Stanford, March 30.

1989. "Interpreting Cue Phrases Intonationally," CMU/University of Pittsburgh Computational Linguistics Seminar, January (with D. Litman).

1988. "Intonational Meaning and Speech Synthesis," Columbia University Cognitive Seminar, April 25.

1988. "Controlling Intonational Meaning in Synthetic Speech: Varying Stress, Pitch, and Timing to Convey Discourse Information," Columbia University Department of Computer Science AI Day, April 15.

1988. "Generating Appropriate Intonational Features in Synthetic Speech," Bell Communications Research CHI Seminar, March 31.

1988. "Intonational Features and Discourse Interpretation", US/Japan Workshop on Natural-Language Processing and Computer Software (NSF), January.

1987. "Structuring Discourse Intonationally," AI Colloquium Series, New York University, October.

1987. "The Meaning of Intonational Contours in the Interpretation of Discourse" (with J. Pierrehumbert), Symposium on Intentions and Plans in Communication and Discourse, Monterrey, March.

1987. Panel on Current Issues in Discourse and Pragmatics, TINLAP-87, January.

1987. "Intonational Meaning in the Interpretation of Discourse", ATR Workshop on Natural Language Dialogue Interpretation, Osaka, November.

1986. "Intonation and Discourse," AI Seminar, Bolt, Baranek, and Newman, Inc., July (with J. Pierrehumbert).

1986. "Discourse and intonational meaning," University of Delaware, March.

1986. "Intonational structuring of discourse," (with J. Pierrehumbert), Sloan Seminar in Cognitive Science, University of Pennsylvania, February.

1984. "The Pragmatics of Fall-Rise Intonation," (with G. Ward) Sloan Seminar in Cognitive Science, University of Pennsylvania, October.

Conference Presentations

2008. "The Effect of Semantic Modality on the Assessment of Speaker Certainty," LSA Annual Meeting, Chicago, January (with G. Ward, Agus Gravano, Elisa Sneed, Stefan Benus).

1992. "A Pragmatic Account of the H* H H% Contour in English," Linguistic Society of America Annual Meeting, January (with G. Ward).

1988. "'NP does too' vs. 'so does NP', " Linguistic Society of America Annual Meeting, December (with G. Ward).

1988. "On the Role of Accent in the Interpretation of Bound Anaphora," Midwestern Modern Language Association, November (with G. Ward).

1987. "Accent and Bound Anaphora," Linguistic Society of America Annual Meeting, December (with G. Ward).

1987. "Pragmatic Wars and Tautological Battles," Linguistic Society of America Annual Meeting, December (with G. Ward).

1987. "On the Phonetic Determinants of Incredulity and Uncertainty" International Pragmatics Conference, Antwerp, August (with G. Ward).

1986. "Reconciling incredulity with uncertainty: a unified account of the L*+H L L% intonational contour," Linguistic Society of America Annual Meeting, December (with G. Ward).