

REBECCA J. PASSONNEAU

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EDUCATION

- 1985 Ph.D., Linguistics, University of Chicago; Thesis: *Discourse Constraints on ‘It’ and ‘That’: A Study of Language Use in Career Counseling Interviews*.
Committee: Jerrold Sadock, David McNeill, Michael Silverstein
- 1976 M.A., Linguistics, University of Chicago; Thesis: *A Study of Early Linguistic Development*.
Supervisor: Victor Yngve
- 1974 B.A. with honors, Linguistics, University of Chicago

PROFESSIONAL EXPERIENCE

- Jul 2016 - present Professor, Department of Computer Science and Engineering
The Pennsylvania State University, University Park, PA 16802
- Apr 2012 - Jun 2016 Director, Center for Computational Learning Systems, Columbia
University, New York, NY
- Mar 2011 - Mar 2012 Acting Director, Center for Computational Learning Systems,
- Jun 2010 - Jun 2016 Senior Research Scientist, Center for Computational Learning Systems,
- Apr 2006 - May 2009 Research Scientist, Center for Computational Learning Systems,
- Sep 2000 - Mar 2006 Consultant, Computational Linguistics and NLP:
Department of Computer Science, Columbia University
College of Information Studies, University of Maryland
ETS Research, NLP Group, Princeton, NJ
AT&T Research Labs, Florham Park, NJ
- 1998-1999 Sabbatical in Creative Writing
- 1990-1997 Research Scientist, Dept. of Computer Science, Columbia University
- 1995-1997 Visiting Research Scientist, Bellcore, Morristown, NJ
- 1985-1990 Research Scientist, Paoli Research Center, Unisys, Paoli, PA

RESEARCH INTERESTS

I investigate how the same combinations of words have different meanings in different contexts, in spoken or written language. This question is a particularly challenging object of study because we lack good models of context, its components, how it changes from moment to moment, and how it depends on language users. My recent work includes automated content analysis of students’ writing in STEM subjects, including essays and constructed response questions; adaptive human-machine dialogue policies for multimodal interaction, including agents that learn by interviewing people; semantic analysis of large scale textual sources for prediction of real-world events; creation of annotated resources using crowdsourcing and probabilistic models. My early work made significant contributions to models of discourse structure and reference, temporal semantics and summarization. I received my PhD in 1985 from the University of Chicago Department of Linguistics, and I worked at many academic and industry research labs before joining the Department of Computer Science and Engineering at Pennsylvania State University. My work is reported in over 140 refereed publications.

GRANTSMANSHIP

I have been Principal Investigator or co-Principal Investigator on 27 sponsored projects, with funding from 16 sources, including government agencies, corporate sponsors, corporate gifts, and foundations. My lifetime total funding comes to \$10,037,895.

GRANTS AND CONTRACTS

Jul 2020 - Jul 2024	<i>Collaborative Research: Supporting Science Learning and Teaching in Middle School Classrooms through Automated Analysis of Students' Writing</i> National Science Foundation: \$1,477,256 (PSU Share)
Sep 2018 - Aug 2019	<i>EAGER: Collaborative Research: Automated Instruction Assistant for Argumentative Essays</i> National Science Foundation: \$157,000 REU Supplement: \$16,000
Sep 2018 - Aug 2019	<i>Multigenre Knowledge Network Construction for Intelligence Analysis and Foraging (I1)</i> U. S. Army Research Laboratory, Network Science, Collaborative Technology Alliance (NSCTA), Year 10 Passonneau share: \$109,669
Sep 2017 - May 2018	<i>Automated Document Redaction</i> Accenture: \$ 30,000
Jun 2017 - May 2019	<i>Fostering Interdisciplinary Collaboration for Data Empowered Learning of Language Skills</i> Teaching and Learning with Technology Fellow, \$25,659
Sep 2016 - Sep 2018	<i>Quality of Information for Semantically Aware Networks (QoI-SAN)</i> U.S. Army Research Laboratory, Network Science, Collaborative Technology Alliance (NSCTA), Years 8-9 Passonneau share: \$197,528
Sep 2015 - Aug 2016	<i>Semantically Enriched Topic Modeling (coPI)</i> Goldman Sachs: \$ 149,999
Sep 2015 - Jun 2016	<i>Interaction Management for Vision-Sensing Robots</i> Army Research Labs: \$ 49,992
Sep 2015 - Dec 2015	<i>Classifiers for Unbalanced Classes with Non-Representative Sampling</i> Accenture: \$ 25,000
Jan 2015 - Jun 2016	<i>CAP: Advancing Technology and Practice for Learning Reading and Writing Skills in Secondary Science Education</i> National Science Foundation: \$59,973
Sep 2014 - Aug 2015	<i>Semantic Knowledge Graphs of Mathematics Content</i> Pearson: \$179,349
Jan 2012 - Mar 2016	<i>LORELEI: Low Resource Language Indexing</i> IBM (Prime), Columbia University, City University of New York,

	Cambridge University, RWTH Aachen University, New York University, and University of Southern California Intelligence Advanced Research Projects Activity (IARPA): \$ 15,669,694 Columbia budget (5 co-PIs): \$3,978,181 Passonneau share: \$701,174
Dec 2011 - Jul 2013	<i>Secondary System Backbone Project: Targeting Models for Manhattan, Brooklyn and Bronx</i> (PI) The Consolidated Edison Company of New York: \$1,394,495
July 2011 - June 2012	<i>RUI: CRI: CI-ADDO-EN: Collaborative Research: MASC: A Community Resource For and By the People</i> (coPI; with PI Nancy Ide, Vassar College) National Science Foundation: Columbia budget: \$86,183
May 2011 - May 2012	<i>Secondary System Project, Manhattan Corollary 2011: Initial Operational Model for Inspections, Program Analytics</i> (PI) The Consolidated Edison Company of New York: \$449,997
May 2010-Jun 2011	<i>Secondary Machine Learning Project</i> (PI) New York State Center for Advanced Technology: \$50,000
Oct 2007-Aug 2012	<i>Incremental Wizard Ablation: A Novel WOz Paradigm for, Learning, Testing and Evaluationg Human-Machine Dialogue Strategies from Parameterized Corpora</i> (PI) Collaborative research with Susan L. Epstein, City University of New York National Science Foundation Columbia budget: \$571,808; Budget Supplements: \$32,000
Aug 2007-Sep 2011	<i>A Richly Annotated Resource for Language Processing and Linguistics Research</i> (PI of subaward; with PI Nancy Ide, Vassar College) National Science Foundation Columbia budget: \$156,413; Budget Supplements: \$52,880
Jul 2007-Dec 2010	<i>Semantic Annotation and Meaning Representation Utility</i> (coPI) Johns Hopkins Center of Excellence; \$220,388
May 2006-Aug 2008	<i>Refining Computational Linguistic Techniques for CLiMB Texts</i> With University of Maryland (PI of subaward) Mellon Foundation (subaward): \$57,260
Jan 2006-May 2011	<i>Manhole Events and Secondary System Machine Learning</i> (coPI) Consolidated Edison: \$2,050,277
May 1996-April 1999	<i>CARD: Corpus Analysis Resources for Discourse</i> (PI) National Science Foundation and Defense Advanced Research Projects Agency: \$860,821
Jan 1996-Dec 1996	<i>ZEDDoc: Multimedia Web Report Generator for the ZED Prototype Advertisement Manager</i> (coPI) Bellcore: \$600,000
July 1992-June 1994	<i>Constraints on Reference and Segmentation for Discourse Processing</i> (PI) National Science Foundation: \$84,512 Columbia University, New York, NY Principal Investigator: Rebecca Passonneau

- 1991, July–1994, June *Extracting Constraints on Word Usage from Text Corpora*
 DARPA: \$1,032,849
 Columbia University, New York, NY
 Senior Research Scientist
 Principal Investigator: Professor Kathleen McKeown
- Jun 1988–Aug 1989 *Automated Analysis of Biomedical Text* (PI)
 National Library of Medicine (NLM): \$155,723
- Apr 1982–Jun 1983 *Text Pragmatics and Information Structure* (coPI)
 Sloan Foundation Seed Grant: \$5,300
 Principal Investigator: Michael Silverstein (University of Chicago)

PROFESSIONAL SERVICE

Program Chairs: Action Editor, Association for Computational Linguistics Rolling Review, November 2021; Area Chair, Dialogue and Interactive Systems, 2019 Conference of the Association for Computational Linguistics (ACL); Tutorial Co-Chair, 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics (2018); Area Chair, Dialogue and Interactive Systems, Association for Computational Linguistics and International Joint Conference on Natural Language Processing (ACL-IJCNLP; 2021); Area Chair, Resources and Evaluation, 2017 Conference of the European Association for Computational Linguistics (EACL); Area Chair, Evaluation Methods, 2013 Conference of the Association for Computational Linguistics (ACL); Area Chair, Discourse, SEM 2013; Technical program co-chair, 12th Annual SIGdial Meeting on Discourse and Dialogue (SIGdial 2011), Portland, OR

Editorial Boards:

International Journal of Artificial Intelligence in Education (IJAIED), 2017
 LILT (Linguistic Issues in Language Technology, 2014
 Language Resources and Evaluation, 2010–present
 Computational Linguistics, 1993–1996

Expert Panel:

Organization for Economic Co-operation and Development (OECD), Expert Meeting to Compare Computer and Human Language Skills, May 2016, Russell Sage Fnd., New York, NY
 To be reconvened, October 2021

Journal Special Issue:

Multidisciplinary Approaches to AI and Education for Reading and Writing. Special Issue of International Journal of Artificial Intelligence in Education (IJAIED), vol. 27 (2017).

Program Committees and Senior Program Committees:

Association for the Advancement of Artificial Intelligence (AAAI; 2015, 1991)
 Association for Computational Linguistics (ACL; 2007 - 2014; 1993–1995)

Co-Chair, ACL Student Session 1994
 Conference on Human Computation and Crowdsourcing, AAAI (HCOMP'16)
 Conference on Natural Language Learning (CoNLL; 2019)
 European Association for Computational Linguistics (EACL; 2014, 2012, 2010)
 Empirical Methods in Natural Language Processing (EMNLP; 2019; 2017, 2015, 2014, 2012, 2007)
 International Joint Conference of Artificial Intelligence and Pacific Rim Conference on
 Artificial Intelligence (IJCAI-PRICAI; 2020)
 Knowledge and Reasoning in Practical Dialogue Systems (2013)
 International Conference on Artificial Intelligence in Education (2022)
 International Conference on Language Resources and Evaluation (LREC; 2015, 2012, 2010,
 2008, 2006)
 Linguistic Annotation Workshop (LAW' 2010)
 North American Association for Computational Linguistics
 & Human Language Technology (NAACL/HLT; 2018, 2013, 2009-10, 2006-7)
 SEM Joint Conference on Lexical and Computational Semantics (*SEM 2016, 2014)
 SIGdial Meeting on Discourse and Dialogue (SIGdial 2022; 2021; 2020; 2018)
 Workshop on Ambiguity in Anaphora, European Summer School in
 Logic, Language and Information (2006)
 Workshop on Computational Linguistics for Literature at NAACL (2015, 2013, 2012)
 Workshop on Intrinsic and Extrinsic Evaluation for MT and/or Summarization, ACL (2005)
 Workshop on Human Judgments in Computational Linguistics (2008)

Middle School Girls Summer Camp

Game Makers, Game Changers, Penn State University, Department of Computer Science and Engineering Camp for Girls, June 21-25, 2021. Organizer of the *Game Changers* component of the camp on artificial intelligence.

Workshop Organizer

Connecting Language, Interaction and Education in Digital Environments. Penn State University, September 26-27, 2017. Sponsored by NSF Award IIS-1455533 Teaching and Learning with Technology, and the Penn State University Waterbury Chair, Richard Duschl.
 MARWiSE: Multidisciplinary Advances in Reading and Writing for Science Education. Columbia University, May 7-8, 2015. Sponsored by NSF Award IIS-1455533 (with Smaranda Muresan and Dolores Perin).

Colloquium co-Organizer:

Joint CSE-IST Colloquium in Natural Language Processing at Penn State University 2016-present
 Occasional Talks in Speech, Language and Cognition (OTSLAC), Natural Language Group, Columbia University, 2003-2006

Founding Member: *Discourse Resource Initiative* (DRI), a community effort to create resources for investigating discourse and dialogue structure, 1995-1997; co-organizer of DRI working session, February, 1997 DRI meeting, Dagstuhl Conference Center, Germany

Reviewing:

National Science Foundation, Review Panels (2022; 2021; 2018, 2012, 2011, 2007, 2001, 1996)

Outside reader on thesis proposal defense committees, Columbia University; University of Edinburgh; City University of New York

Referee on papers submitted for journal publication:

ACM Computing Surveys

ACM Transactions on Speech and Language Processing

Dialogue and Discourse

Discourse Processes

IEEE Transactions on Audio, Speech and Language Processing

International Journal of Man-Machine Studies

International Journal of Artificial Intelligence in Education

Journal of Artificial Intelligence Research

Journal of Computational Linguistics

Language Resources and Evaluation

Natural Language Engineering

Language Sciences

Speech Communication

Research on Language and Computation

HONORS

- Best Paper Award, 4th Annual Natural Language Interface over the Web of Data (NLI-WoD) workshop, 2018
- Best Paper Award, International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, 2014
- INFORMS Innovative Applications in Analytics Award, 2013 (\$2000 award)
- Best Paper Nominee, 11th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL HLT), 2010
- Best Poster Award, International Conference of Machine Learning and Applications (ICMLA) 2009

GRADUATE STUDENTS DIRECTLY SUPERVISED

Berk Atil, Teaching Assistant (Ph. D), Fall 2022-present

Mahsa Sheiki, Research Assistant (M.S.), Fall 2022-present

Jiajie Sun, Teaching Assistant (M. S.), Fall 2021

Vipul Gupta, Teaching Assistant/Research Assistant (Ph.D.), Fall 2021-present

Ruihao Pan, Teaching Assistant (Ph. D.), Fall 2021-present

Purushartha Singh, Graduate Research Assistant (M.S.), Fall 2020-Spring 2022

Zhaohui Li, Graduate Research Assistant/Teaching Assistant (Ph. D.), Fall 2019-present

Sweekar Sudhakara, Teaching Assistant, Masters Student Electrical Engineering, Fall 2019-Spring 2020

Saptarashmi Bandyopadhyay, Graduate Research Assistant (Ph.D), Fall 2018-Spring 2019

Maryam Zare, Graduate Research Assistant (Ph.D), Fall 2018-Summer 2021

YanJun Gao, Graduate Research Assistant (Ph.D), Fall 2016-Summer 2021

Kyriaki Zafeiroudi, Graduate Research Assistant (Masters), Fall 2016-Spring 2019

Ming Liu, Graduate Research Assistant (MEng), Fall 2016-Spring 2018

Boyi Xie, Graduate Research Assistant (Ph.D), Spring 2010-Fall 2015

Joshua Gordon, Graduate Research Assistant, Summer 2008-Summer 2011

ADDITIONAL GRADUATE STUDENTS SUPERVISED (FUNDED)

Raquel Alvarez, Graduate Research Assistant (MS), Spring 2018

Ruilin Zhong, Graduate Research Assistant (MS), Fall 2015-Spring 2016 Hooshmand Shokri

Razaghi, Graduate Research Assistant (Ph.D), Spring 2016

Jie Gao (IARPA), Spring, Summer, Fall 2015; currently in doctoral program,

Computer Science, University of Pennsylvania, with Chris Callison-Burch Rogers Jeffrey

Leo John, Graduate Research Assistant (MS), Fall 2014

Krutika Shetty, Graduate Research Assistant (MS), Spring 2013

Vikas Bhardwaj, Graduate Research Assistant (MS), Fall 2009-Spring 2010

Pravin Bhutada, Graduate Research Assistant (MS), Fall 2009

Ashish Tomar, Graduate Research Assistant (MS), Fall 2009

Boyi Xie, Graduate Research Assistant (MS), Fall 2009-Fall 2010

Tom Lippincott, Graduate Research Assistant (MS), 2008; 2014 Ph.D. Computer Science

in Computer Science, Cambridge University, with Anna Korhonen

(Royal Society University Research Fellow); Assoc. Res. Scientist,

Human Language Technology COE, Johns Hopkins

Jun (Andrew) Hu, Graduate Research Assistant (MS), 2008-2009; currently a

Software Development Engineer at Microsoft

Tae Yano, Departmental Research Assistant (MS), 2006; entered doctoral program

in Computer Science, Carnegie Mellon University, with Noah Smith (Asst. Prof.)

Ashish Tomar (MS), Summer 2008

ADDITIONAL GRADUATE STUDENTS SUPERVISED (UNFUNDED)

Gaurav Gite (MS), Spring 2016

Utkarsha Prakash (MS), Fall 2015

Vibhor Gaur (MS), Fall 2015

Ananya Poddar (MS), Spring 2015, Fall 2015 Ziheng Huang (MS), Spring 2015

Chuyao Shen (MS), Fall 2014, Spring 2015

Jialu Zhong (MS), Fall 2014 - Spring 2015

Yuan Du (MS), Spring 2014 Diego Fulgeira (MS), Fall 2008

Jing-Yeu Miaw (MS), Spring 2008

Vinodkumar Gourinivas (MS), Fall 2008 Sara Stolbach (MS), Fall 2007

UNDERGRADUATE RESEARCH ASSISTANTS SUPERVISED (FUNDED)

Yumi Jin, NSF-funded Research Assistant, Fall 2022

Chengning Zhang, NSF-funded Research Assistant, Fall 2022

Alexander Billups, co-supervised with Brian Belland, Penn State College of Education,
Fall 2022

Ryab Tuckman, CSRAI seed grant, Summer 2022

Tianzheng Meng, CSRAI seed grant, Summer 2022

Sai Karthik Reddy Koralla, CSRAI seed grant, Summer 2022

Joseph Miller, co-supervised with Profs. Dennis Pearl and Matthew Beckman, Penn State
Eberly College of Science, Department of Statistics, Summer 2021

Dev Patel, NSF-funded Research Assistant, Summer 2021

Greg Shook, NSF-funded Research Assistant, University of Edinburgh, Summer 2021

Josephine Soddano, NSF-funded Research Assistant, Spring 2021

Yajur Tomar, NSF-funded Research Assistant, Spring, Fall 2021; NSF REU, Summer 2021

Andrew Buckley, College of Engineering Learning Factory Internship Program, Summer 2020

Andrew Whitaker, College of Eng. Learning Factory Internship Program, Summer 2020

Chenyin Zhang, NSF REU, Summer 2020

Varun Jani, NSF REU, Summer 2020

Aishan Liu, College of Eng. Research Initiative (CERI REU), Fall 2019

Purushartha Singh, Research Experience for Undergraduates, NSF, Summer 2019;

Dr. David and Shirley Wormley Fund, Spring 2020

Noah Rubin, Research Experience for Undergraduates, NSF, Fall 2019, Fall 2020 Steven

Fontanella, Research Experience for Undergraduates, NSF, Spring 2019, Fall 2019

Connor Heaton, Research Experience for Undergraduates, NSF, Spring 2019

Leah Eckman, Collaborative Research Experiences for Undergraduates, Computing Research
Association for Women (CREU), Penn State, Fall 2017 - Spring 2018

Andrew Warner, College of Engineering Research Initiative (CERI REU),

Research Experience for Undergraduates, Penn State, Fall 2017;

Teaching and Learning with Technology, Penn State, Summer 2017

Tifara Ramelson, Distributed Research Experiences for Undergraduates
Brandeis, Summer 2014

Ben Hixon, Research Experience for Undergraduates, NSF

Hunter College, 2010-Summer 2013

Emma Conner (Oberlin College; NSF REU), 2011-2012

Irene Alvarado (Columbia Engineering, Columbia University; NSF REU), 2009-2011

Phil Crone (Columbia College, Columbia University; NSF REU), 2010-2011

Sam Cunningham (Pomona College; NSF REU), 2010-2011

Alex Dieudonne (Hunter College - CUNY; NSF REU), 2008-2011

Thomas Flynn (Hunter College - CUNY; NSF REU), 2008-2011

Molly Grattan (Hunter College - CUNY; NSF REU), 2009-2011

Simon Jerome (Columbia College, Columbia University; NSF REU), 2010-2011

Terry Klemensen (Hunter College - CUNY; NSF REU), 2010-2011

Brandon Maister (Hunter College - CUNY; NSF REU), 2008-2011

Josue Martinez (Hunter College - CUNY; NSF REU), 2009-2011

Geoff Rice (Hunter College - CUNY; NSF REU), 2008-2011
Eric Schneider (Hunter College - CUNY; NSF REU), 2010-2011
Jason Fitzsimmons (Hunter College - CUNY; NSF REU), 2008-2010
Chris Haueter (Columbia Engineering, Columbia University; NSF REU), 2008-2010
Eddie Kang (Columbia College, Columbia University; Johns Hopkins Center of Excellence),
2009-2010
Michal Novemsky (NYU; Johns Hopkins Center of Excellence), 2009-2010
Ilya Korsunsky (Hunter College - CUNY; NSF REU), 2009-2010
Davis Quintanilla (Hunter College - CUNY; NSF REU), 2008-2010
Boris Mindzak (Columbia College, Columbia University; NSF REU), 2008-2009
Patricia Paunescu (Hunter College - CUNY; NSF REU), 2008-2009
Eliane Stampfer (Columbia College, Columbia University; NSF REU), 2008-2009
Allan Zelener (Hunter College - CUNY; NSF REU), 2008-2009
Carnegie Castillo (Hunter College - CUNY; NSF REU), 2007-2008
Kenneth Cordero (Hunter College - CUNY; NSF REU), 2007-2008
Cem Isbilir (Hunter College - CUNY; NSF REU), 2007-2008
Zhi An Liu (Columbia College, Columbia University; Consolidated Edisaon), 2007-2008
William Ng (Hunter College - CUNY; NSF REU), 2007-2008
Davis Quintanilla (Hunter College - CUNY; NSF REU), 2007-2008
Allan Zelener (Hunter College - CUNY; NSF REU), 2007-2008
Adam Goodkind (Jewish Theological Seminary, Columbia University) DARPA;
NSF REU, 2006-2007

ADDITIONAL UNDERGRADUATE RESEARCH SUPERVISED (UNFUNDED)

Yajur Tomar (Penn State University), Fall 2022-Spring 2023, Honors Thesis Supervisor
Zekun Wang (Penn State University), Spring 2022
Lihao Chen (Penn State University), Fall 2021 - Spring 2022
Jiawei Chen (Penn State University, Schreyer Honors Student), Fall 2021
Nishant Asati (Penn State University), Summer 2021
Noah Rubin (Penn State University, Schreyer Honors Student), Fall 2018-Spring 2020
Alex Driban (Penn State University, Schreyer Honors Student), Spring 2019
Alisa Krivpacik (Columbia College, Columbia University), Spring 2016
Shalva Kohen (Columbia College, Columbia University), Spring 2016
John Mathews (Columbia College, Columbia University), Spring 2016
Reza Nayebi (Columbia College, Columbia University), Spring 2016
Sam Lim-Kimberg, Fall 2015
Yin Zhao, Fall 2015
Garrett Roberts, Fall 2015
Di Li, Fall 2015
Boxuan Guan, Spring 2014
Cho Ho Yeung, Spring 2014

HIGH SCHOOL STUDENT (UNFUNDED)

David Sharp, Yorktown High School, Yorktown Heights, NY; Spring 2018-Fall 2018

VISITING GRADUATE STUDENTS

Qian Yang, Tsinghua University, PhD student , Winter-Spring 2015
 Javier Guerrero, Stockholm University, PhD student, Summer 2014
 Marouan Khaya, Denis Diderot Engineering School, Masters student, Summer 2014

THESIS COMMITTEES (NON-SUPERVISORY MEMBER)

Seethalakshmi Gopalakrishnan, Department of Computer Science, University of North Carolina, Fall 2021
 Chieh-Yang Huang, College of Information Sciences and Technology, Penn State University, Fall 2021
 Tracy Shen, College of Information Sciences and Technology, Penn State University, Spring 2021
 Kunho Kim, College of Information Sciences and Technology, Penn State University, Spring 2019
 Matthew Dering, Department of Computer Science and Engineering, Penn State University, Spring 2017
 Yang Xu, College of Information Sciences and Technology, Penn State University, December 2017
 Ahmed Kholly, Department of Computer Science, Columbia University, December 2015
 Joshua Waxman, Department of Computer Science, City University of New York, June 2014
 John Niekrasz, Departments of Informatics, and Linguistics and English Language, University of Edinburgh, July 2011
 Tiziana Ligorio, Department of Computer Science, City University of New York, May 2011
 Agus Gravano, Department of Computer Science, Columbia University, January 2009

COURSES TAUGHT

2016-present, Fall	<i>Artificial Intelligence</i> (advanced undergrads), Penn State
2022, Spring	<i>Natural Language Processing</i> (graduate), Penn State
2018-2021, Spring	<i>Special Topics: Natural Language Processing</i> (grad. & adv. undergrad), Penn State
2017, Spring	<i>Special Topics: Computational Semantics and Pragmatics</i> (grad.), Penn State
1997, Spring	<i>Computing and the Humanities</i> (adv. undergrad), Columbia University
1991, Fall	<i>Lexicon in Linguistics, Computational Linguistics and Machine Translation</i> (grad), Columbia University
1987, Spring	<i>Natural Language Processing</i> (grad. & adv. undergrad) Department of Computer Science, University of Delaware
1985, spring	<i>Great Ideas in Western Literature</i> (undergrad) Liberal Studies Program, Clarkson University

UNIVERSITY AND DEPARTMENTAL SERVICE

- Chair, AC-14 Administrative Review Committee, School of Engineering Design, Technology, and Professional Programs (SEDTAPP), Spring 2019
- College of Engineering, Senior Women Faculty, 2017-present.

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- College of Engineering, Open Faculty Search, 2021-present.
 - College of Engineering, Promotion and Tenure Committee, 2021-2022.
 - Schreyer Honors College, Student Advising, 2017-present, twenty advisees.
 - Millenium Scholars, Student Advising, 2018-2019, one advisee. Recruiting 2019.
 - Departmental Search Committees, 2021-2022, 2020-2021, 2019-2020, 2018-2019, 2017-2018.
 - Chair, Search Committee, 2016-2017. Five positions sought, four filled (Systems (2), Architecture, Machine Learning)

JOURNAL PAPERS AND MONOGRAPHS¹

1. Davies, Patricia M.; Passonneau, Rebecca J., Muresan, Smaranda; Gao, Yanjun. 2022. Analytical Techniques for Developing Argumentative Writing in STEM: A Pilot Study. *IEEE Transactions on Education*, 65(3): 373-383.
2. Gao, Jie; Radeva, Axinia; Shen, Chuyao; Wang, Shiqi; Wang, Qianbo; Passonneau, Rebecca. J. 2018. Prediction of a Hotspot Pattern in Keyword Search Results. *Computer, Speech and Language* 48: 80-102 (March 2018).
3. Passonneau, Rebecca J.; Ananya Poddar; Gite, Gaurav; Krivokapic, Alisa; Yang, Qian; Perin, Dolores. 2017. Wise Crowd Content Assessment and Educational Rubrics. *International Journal of Artificial Intelligence in Education (IJAIED)* 28(1): 29-55 (March 2018).
4. Passonneau, Rebecca J. and Bob Carpenter. 2014. The benefits of a model of annotation. *Transactions of the Association for Computational Linguistics (TACL)*, 2 (Oct): 311-326.
5. Cynthia Rudin, Şeyda Ertekin, Rebecca J. Passonneau, Axinia Radeva, Ashish Tomar, Boyi Xie, Stanley Lewis, Mark Riddle, Debbie Pangsrivini, Tyler McCormick. Analytics for Power Grid Distribution Reliability in New York City. Interfaces, 2014. **INFORMS Innovative Applications in Analytics Award, 2013.**
6. Passonneau, Rebecca J.; Susan L. Epstein; Tiziana Ligorio. 2012. Naturalistic dialogue management for noisy speech recognition. *IEEE Journal of Special Topics in Signal Processing. Special Issue on Advances in Spoken Dialogue Systems and Mobile Interfaces*, 6(8):928-942.
7. Epstein, Susan L.; Osisek, Eric; Hixon, Ben; Passonneau, Rebecca J. 2012. Similarity and plausible recommendations. *Advances in Cognitive Systems*, 2: 185-202.
8. Epstein, Susan L.; Passonneau, Rebecca J.; Gordon, Joshua; Ligorio, Tiziana. 2011. The role of knowledge and certainty in understanding for dialogue. *Advances in Cognitive Systems*, 1:93-108.
9. Passonneau, Rebecca J.; Bhardwaj, Vikas; Salieb-Aouissi, Ansaf; Ide, Nancy. 2012. Multiplicity and word sense: evaluating and learning from multiply labeled word sense annotations. *Language Resources and Evaluation*, 46(2): 219-252.
10. Rudin, Cynthia; Waltz, David; Anderson, Roger; Boulanger, Albert; Salieb-Aouissi, Ansaf; Chow, Maggie; Dutta, Haimonti; Gross, Phil; Huang, Bert; Jerome, Steve; Isaac, Delfina; Kressner, Artie; Passonneau, Rebecca J.; Radeva, Axinia; Wu, Leon. 2011. Machine learning for the New York City power grid. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Issue 99.

¹H-index: 40; Cites: 8,484 (from Google Scholar).

11. Dorr, Bonnie J.; Passonneau, Rebecca J.; Farwell, David; Green, Rebecca; Habash, Nizar; Helmreich, Stephen; Hovy, Eduard; Levin, Lori; Miller, Keith J.; Mitamura, Teruka; Rambow, Owen; Siddharthan, Advaith. 2010. Interlingual annotation of parallel text corpora: A new framework for annotation and evaluation. *Natural Language Engineering* 16(3): 197-243.
12. Rudin, Cynthia; Passonneau, Rebecca J.; Radeva, Axinia; Dutta, Haimonti; Ierome, Steve; Isaac, Delfina. 2010. Predicting manhole events in Manhattan: A case study in extended knowledge discovery. *Machine Learning* 80(1):1-31.
13. Passonneau, Rebecca. 2009. Formal and functional assessment of the Pyramid Method for summary content evaluation. *Natural Language Engineering*, 16(3):197-243.
14. Klavans, Judith L.; Sheffield, Carolyn; Abels, Eileen; Lin, Jimmy; Passonneau, Rebecca J.; Sidhu, Tandeep; Soergel, Dagobert. 2009. Computational linguistics for metadata building (CLiMB): Using text mining for the automatic identification, categorization and disambiguation of subject terms for image metadata. *Journal of Multimedia Tools and Applications*, 42(1):115-38.
15. Nenkova, Ani; Passonneau, Rebecca J.; McKeown, Kathleen. 2007. The Pyramid Method: incorporating human content selection variation in summarization evaluation. *Association for Computing Machinery (ACM) Transactions on Speech and Language Processing*, 4(2), Article 4.
16. Passonneau, Rebecca J. and Diane J. Litman. 1997. Discourse segmentation by human and automated means. *Computational Linguistics: Special Issue on Empirical Studies in Discourse Interpretation and Generation*, 23(1): 103-139.
17. Passonneau, Rebecca J. 1996. Using centering to relax informational constraints on discourse anaphoric noun phrases. *Language and Speech: Special Issue devoted to Discourse, Syntax and Information*, 39: 229-264.
18. Palmer, Martha; Weir, Carl; Passonneau, Rebecca J.; Finin, Tim. 1993. The KERNEL text understanding system. *Artificial Intelligence*, 63: 17-68.
19. Passonneau, Rebecca J. 1988. A Computational model of the semantics of tense and Aspect. *Computational Linguistics, Special Issue on Tense and Aspect*, 14: 44-60.

REFEREED CONFERENCE AND WORKSHOP PAPERS

20. Zare, Maryam; Wagner, Alan R.; Passonneau, Rebecca J. To Appear. A POMDP Dialogue Policy with 3-way Grounding and Adaptive Sensing for Learning through Communication. *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing*, Abu Dhabi, December 7-11.

21. Das, Sarkar.; Katiyar, A.; Passonneau, R.; and Zhang, R. CONTaiNER: Few-Shot Named Entity Recognition via Contrastive Learning. *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 6338–6353, Dublin, Ireland, 2022. Association for Computational Linguistics
22. Singh, Purushartha Singh; Passonneau, Rebecca J.; Wasih, Mohammad; Cang, Xuesong; Kim, ChanMin; Puntambekar, Sadhana. 2022. Automated Support to Scaffold Students’ Written Explanations in Science. In *Artificial Intelligence in Education: 23rd International Conference, AIED 2022, Durham, UK, July 27–31, 2022, Proceedings*.
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126. Dahl, Deborah; Palmer, Martha; Passonneau, Rebecca J. 1987. Nominalizations in PUNDIT. In *Proceedings of the 25th Annual Meeting of the Association for Computational Linguistics*. Stanford, CA. July, 1987.

127. Passonneau, Rebecca J. 1987. Situations and intervals. In *Proceedings of the 25th Annual Meeting of the Association for Computational Linguistics*. Stanford, CA. July, 1987.
128. Palmer, Martha; Dahl, Deborah; Schiffman [Passonneau], Rebecca J.; Hirschman, Lynette; Linebarger, Marcia; Dowding, John. 1986. Recovering implicit arguments. In *Proceedings of the 24th Annual Meeting of the Association for Computational Linguistics*. NY, NY. July, 1986.
129. Passonneau, Rebecca J. 1986. Pragmatic function versus semantic content. In *Proceedings of the 10th Annual Penn Linguistics Colloquium*. Philadelphia, PA. January, 1986.
130. Passonneau, Rebecca J. 1984. The two nominal anaphors *IT* and *THAT*. In *Papers from the 20th Regional Meeting of the Chicago Linguistic Society*. Chicago, IL. 1984.
131. Passonneau, Rebecca J. 1984. Categories of discourse deixis. In *Proceedings of the 29th Annual Conference of the International Linguistics Association*. New York, NY. March, 1984.

NON-REFEREED CONFERENCE AND WORKSHOP PAPERS

132. Ide, Nancy; Passonneau, Rebecca J.; Baker, Collin; Fellbaum, Christiane. 2008. Semantics isn't easy: Thoughts on the way forward. *Symposium on Semantic Knowledge Discovery, Organization and Use*. New York University. November 14-15, 2008.
133. Passonneau, Rebecca J.; McKeown, Kathleen; Sigelman, Sergey. 2006. Applying the Pyramid Method in the 2006 Document Understanding Conference. *Proceedings of the 2006 Workshop of the Document Understanding Conference (DUC)*. New York, NY. June, 2006.
134. Passonneau, Rebecca J.; Nenkova, Ani; McKeown, Kathleen; Sigelman, Sergey. 2005. Applying the Pyramid Method in DUC 2005. In *Proceedings of the 2005 Workshop of the Document Understanding Conference (DUC)*. Vancouver, BC. October, 2005.
135. Blair-Goldensohn, Sasha; Evans, David; Hatzivassiloglou, Vasileios; McKeown, Kathleen; Nenkova, Ani; Passonneau, Rebecca J.; Schiffman, Barry; Schlaikjer, Andrew; Siddharthan, Advaith; Siegelman, Sergei. 2004. Columbia University at DUC 2004. In *Proceedings of the 2004 Workshop of the Document Understanding Conference (DUC)*. Boston, MA. May, 2004.

BOOK CHAPTERS

136. Mani, Inderjeet; Passonneau, Rebecca J. 2011. Evaluation. In Ruslan Mitkov (Ed.), *The Oxford Handbook of Computational Linguistics*, 2nd Edition.

137. Passonneau, Rebecca J. 1997. Interaction of the segmental structure of discourse with explicitness of discourse anaphora. In *Proceedings of the Workshop on Centering Theory in Naturally Occurring Discourse*. Edited by Ellen Prince, Aravind Joshi and Marilyn Walker. Oxford University Press.
138. Passonneau, Rebecca J. and Diane Litman. 1996. Empirical analysis of three dimensions of spoken discourse: Segmentation, coherence and linguistic devices. In *Burning Issues in Discourse: An Interdisciplinary Account*. Edited by Ed Hovy and Donia Scott. Heidelberg: Springer Verlag.
139. Passonneau, Rebecca J. 1993. Getting and keeping the center of attention. In *Challenges in Natural Language Processing*. Edited by M. Bates and R. Weischedel. Cambridge University Press. 1993.
140. Feiner, Steven K.; Litman, Diane J.; McKeown, Kathy R.; Passonneau, Rebecca J. 1993. Towards coordinated temporal multimedia presentations. In *Intelligent Multi-Media Interfaces*. Edited by Mark Maybury. MIT Press, 1993.

TUTORIALS

- Rui Zhang, Yangfeng Ji, Yue Zhang, Rebecca J. Passonneau. 2022. *Contrastive Data and Learning for Natural Language Processing*. Tutorial at the North American Association for Computational Linguistics (NAACL), Annual Conference. July. Hybrid, Seattle, WA.

PANELS, PRESENTATIONS AND INVITED TALKS

- *Envisioning Adaptive POMDP Dialogue Policies for Dementia Care*, Conference on Emerging Technologies in Aging & Dementia, University of Tennessee, Knoxville, June 2022.
- *The ABCDs of NLP for Assessment of Student Writing*, Invited talk, University of Pittsburgh, Department of Computer Science, October 2022.
- *The Ideal and the Real Deal: Why NLP is Needed for Writing Assessment*, Center for Language Science, Penn State University, March 2021.
- *NLP Annotation and Essay Rubrics: Connecting Language, Learning and Critical Thinking*, Keynote talk: 13th Linguistic Annotation Workshop (LAW XIII), co-located with ACL 2019, Florence Italy, August 2019.
- *Natural Language Processing to Improve Student Engagement*. EdTech Connect, Penn State University, November 30, 2017.

- *Natural Language Processing at Penn State University*. Industrial and Professional Advisory Council (IPAC) for the School of Electrical Engineering and Computer Science, March 23, 2017.
- *Knowledge Discovery in Large Text Collections*. Social Data Analytics (Penn State IGERT), March 21, 2017.
- *Why Can't Machines Learn to Converse*. Adelphia Laboratory Center, Army Research Laboratory, May 14, 2015.
- *Why Can't Machines Learn to Converse*. Penn State University, College of Engineering, April 16, 2015.
- *Why Can't Machines Learn to Converse*. Natural User Interfaces, Meetup, March 16, 2015.
- *A Wise Crowd Approach to Content Assessment in Discourse*. Virginia Tech University, Department of Computer Science, February 26, 2015.
- *Why Can't Machines Learn to Converse*. Notre Dame, Department of Computer Science and Engineering, January 22, 2015.
- *A Wise Crowd Approach to Content Assessment in Discourse*. Rutgers University, School of Communication & Information, January 15, 2015.
- *Automated Analysis of Students' Reading and Writing*. Teachers College, Department of Arts & Humanities, Applied Linguistics, February 26, 2014.
- Reliability Impacts of Mobile Testing. *Jodie Lane National Conference for Stray (Contact) Voltage Detection, Mitigation, and Prevention*, New York City, November 7, 2011.
- Keynote address, Making Sense of Word Sense, for the Workshop *Beyond semantics: Corpus-based investigations of pragmatic and discourse phenomena*, part of the annual meeting of the German Society for Linguistics, Goettingen, Germany, February 23-25, 2011.
- Ide, Nancy; Passonneau, Rebecca J.; Baker, Collin; Fellbaum, Christiane. 2008. Semantics isn't easy: Thoughts on the way forward. *Workshop on Semantic Knowledge Discovery, Organization and Use*. New York University, November 1-15.
- Evaluate, Evaluate, Evaluate: Issues and Results in Pyramid Evaluation for DUC 2003 and DUC 2005. Computational Linguistics and Information Processing (CLIP) Laboratory, Institute for Advanced Computer Studies, University of Maryland (UMIACS), March 8, 2006.
- Wherefore Evaluation, and Whither? Panel session at ACL 2005 Workshop on Intrinsic and Extrinsic Evaluation Measures for MT and/or Summarization (MTSE). Ann Arbor, Michigan. June, 2005.

- The Pyramid Method: Representing and Quantifying What Humans Recall from Text. Center for the Advanced Study of Language, University of Maryland. April, 2004.
- Dialogue as a Metaphor for Evaluation. Computational Linguistics and Phonetics Group, Saarland University, Saarbrücken, Germany. July, 2003.
- Inspired Machinery. Invited lecture, Psychology of Language Seminar, University of Connecticut, Spring, 2001; Spring, 2002.
- Definiteness, Workshop on Centering Theory in Naturally Occurring Discourse. University of Pennsylvania. May 8-10, 1993.
- Towards Intelligent Discourse Segmentation. Department of Computer Science, University of Rochester, Rochester, NY. November 30, 1992.
- Persistence of Linguistic Form as a Constraining factor in Discourse Processing. University of Paris VI, Jussieu. Paris. February, 1992.
- Member of Panel on Database Generation and Text Extraction. Position paper entitled An Example of Demand-Driven Reasoning for Document Analysis. AAAI Symposium on Text-Based Intelligent Systems. March 27-29, 1990. Stanford University.
- Getting and Keeping the Center of Attention. Presented at the BBN Symposium on Natural Language Processing: Language and Action in the World. November 29–December 1, 1989. Boston, MA.
- Syntactic and Semantic Cues to Attentional Structure and Discourse Entities. Invited talk. Rutgers University, February 14, 1990. Also T. J. Watson Research Center, IBM Corporation. Semantics seminar series. November 2, 1989.
- Integrating NL and KR Technology: PUNDIT, MPACK and PFC. Invited talk. Villanova University, Department of Computer Science, AI Colloquium. October 11, 1989.
- Member of Panel on Computational Linguistics and Research in the Humanities. Meeting of the 27th Association for Computational Linguistics. Vancouver, BC. 1989.
- A Comparison of the Psycholinguistic Approach to the Study of Discourse with Discourse Studies in Linguistics and Artificial Intelligence. Great Lakes Area Rhetoric Association, Annual Meeting. Chicago, April 23, 1983.

HIGHLY CITED TECHNICAL REPORTS

141. Passonneau, Rebecca J. 1997. Applying Reliability Metrics to Co-Reference Annotation. Department of Computer Science, Columbia University, Technical Report CUCS-017-97.

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142. Passonneau, Rebecca J. 1997. Instructions for applying discourse reference annotation for multiple applications (DRAMA). Manuscript.
 143. Passonneau, Rebecca J. 1994. Protocol for Coding Discourse Referential Noun Phrases and Their Antecedents. Department of Computer Science, Columbia University, Technical Report.