

# EMILY TUCKER PRUD'HOMMEAUX

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## CONTACT

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Chestnut Hill, MA 02467

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## EDUCATION

1996 A.B. Linguistics *summa cum laude*, Harvard College  
2000 M.A. Linguistics, University of California, Los Angeles  
2012 Ph.D. Computer Science & Engineering, Oregon Health & Science University

## ACADEMIC APPOINTMENTS

2020 – Gianinno Family Sesquicentennial Assistant Professor, Computer Science, Boston College  
2018 – 2020 Assistant Professor, Computer Science, Boston College  
2018 – Research Faculty, College of Liberal Arts, Rochester Institute of Technology  
2014 – 2018 Assistant Professor, Computational Linguistics (English), Rochester Institute of Technology  
Extended Faculty, Computing and Information Sciences, Rochester Institute of Technology  
2013 – 2014 Postdoctoral Fellow, Center for Language Sciences, University of Rochester  
2012 – 2013 Senior Research Associate, Center for Spoken Language Understanding, OHSU

## INDUSTRY POSITIONS

2002 – 2010 Linguistic Engineer, Nuance Communications  
2000 – 2001 Linguist, Oracle Corporation

## PUBLICATIONS

### Journals

- [J1] Vaidyanathan, P., **Prud'hommeaux, E.**, Alm, C.O., and Pelz, J.B. 2020. Computational framework for fusing eye movements and spoken narratives for image annotation. *Journal of Vision* 20(7):13, 1–28.
- [J2] **Prud'hommeaux, E.** and Roark, B. 2015. Graph-based word alignment for clinical language evaluation. *Computational Linguistics*, 41(4):549–578.
- [J3] van Santen, J., **Prud'hommeaux, E.T.**, Black, L.M., Mitchell, M. 2010. Computational prosodic markers for autism. *Autism*, 14(3):215–236.
- [J4] van Santen, J., **Prud'hommeaux, E.T.**, Black, L.M. 2009. Automated assessment of prosody production. *Speech Communication*, 51(11):1082–1097.

### Refereed Conference Proceedings

- [C1] Gale, R., Asgari, M., Dolata, J., **Prud'hommeaux, E.**, and van Santen, J. 2020. Automatic Assessment of Language Disorders in Children with and without Typical Development. In *Proceedings of the Annual Conference of the IEEE Engineering in Medicine and Biology Society*, 6111–6114.
- [C2] Vaidyanathan, P., **Prud'hommeaux, E.**, Pelz, J., and Alm, C.O. 2018. SNAG: Spoken Narratives and Gaze Dataset. In *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL)*, 132–137.

- [C3] Meyers, B., Munaiah, N., **Prud’hommeaux, E.**, Meneely, A., Wolff, J., Alm, C.O., and Murukannaiah, P. 2018. A dataset for identifying actionable feedback in collaborative software development. In *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL)*, 126–131.
- [C4] Jimerson, R. and **Prud’hommeaux, E.** 2018. ASR for documenting acutely under-resourced indigenous languages. In *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018)*, 4161–4166.
- [C5] **Prud’hommeaux, E.**, van Santen, J., and Gliner, D. 2017. Vector space models for evaluating semantic fluency in autism. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL)*, 32–37.
- [C6] Alm, C.O., Meyers, B.S., **Prud’hommeaux, E.** 2017. An Analysis and Visualization Tool for Case Study Learning of Linguistic Concepts. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing Demo Session (EMNLP)*, 13–18.
- [C7] Munaiah, N., Meyers, B.S., Alm, C.O., Meneely, A., Murukannaiah, P., **Prud’hommeaux, E.**, Wolff, J., Yu, Y. 2017. Natural Language Insights from Code Reviews that Missed a Vulnerability: A Large Scale Study of Chromium. In Bodden E., Payer M., Athanasopoulos E. (eds) *Engineering Secure Software and Systems (ESSoS 2017)*. *Lecture Notes in Computer Science*, vol. 10379, 70–86.
- [C8] Sah, S., Kulhare, S., Gray, A., Venugopalan, S., **Prud’hommeaux, E.**, and Ptucha, R. 2017. Semantic Text Summarization of Long Videos. In *Proceedings of the 2017 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 989–997.
- [C9] Terkik, A., **Prud’hommeaux, E.**, Alm, C., Homan, C., and Franklin, S. 2016. Analyzing Gender Bias in Student Evaluations. In *Proceedings of the 26th International Conference on Computational Linguistics (COLING)*, 868–876.
- [C10] Vaidyanathan, P., Pelz, J., **Prud’hommeaux, E.**, Alm, C., Haake, A. 2016. Fusing eye movements and observer narratives for expert-driven image-region annotations. In *Proceedings of the ACM Symposium on Eye-Tracking Research and Applications (ETRA)*, 27–34. **Best Paper Award**
- [C11] Rouhizadeh, M., **Prud’hommeaux, E.**, van Santen, J., and Sproat, R. 2015. Measuring idiosyncratic interests in children with autism spectrum disorder. In *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL)*, 212–217.
- [C12] **Prud’hommeaux, E.**, Morley, E., Rouhizadeh, M., Silverman, L., van Santen, J., Roark, B., Kauper, S., and DeLaHunta, R. 2014. Computational analysis of trajectories of linguistic development in autism. In *Proceedings of the IEEE Spoken Language Technology Workshop (SLT)*, 266–271.
- [C13] Dikici, E., **Prud’hommeaux, E.**, Roark, B., Saraçlar, M. 2013. Investigation of MT-based ASR confusion models for semi-supervised discriminative language modeling. In *Proceedings of the Annual Conference of the International Speech Communication Association (Interspeech)*, 1217–1221.
- [C14] Rouhizadeh, M, **Prud’hommeaux, E.**, Roark, B., and van Santen, J. 2013. Distributional semantic models for the evaluation of disordered speech. In *Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT)*, 709–714.
- [C15] Lehr, M., Shafran, I., **Prud’hommeaux, E.**, and Roark, B. 2013. Discriminative joint modeling of lexical variation and acoustic confusion for automated narrative retelling assessment. In *Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT)*, 211–220.
- [C16] Lehr, M., **Prud’hommeaux, E.**, Shafran, I., and Roark, B. 2012. Fully automated neuropsychological assessment for detecting Mild Cognitive Impairment. In *Proceedings of the 13th Annual Conference of the International Speech Communication Association (Interspeech)*, 1039–1042.

- [C17] Kiss, G., van Santen, J., **Prud’hommeaux, E.T.**, and Black, L.M. 2012. Quantitative analysis of pitch in speech of children with neurodevelopmental disorders. In *Proceedings of the 13th Annual Conference of the International Speech Communication Association (Interspeech)*, 1343–1346.
- [C18] Karakos, D., Roark, B., Shafran, I., Sagae, K., Lehr, M., **Prud’hommeaux, E.**, Xu, P., Glenn, N., Khudanpur, S., Saraçlar, M., Bikel, D., Dredze, M., Callison-Burch, C., Cao, Y., Hall, K., Hasler, E., Koehn, P., Lopez, A., Post, M., and Riley, D. 2012. Deriving conversation-based features from unlabeled speech for discriminative language modeling. In *Proceedings of the 13th Annual Conference of the International Speech Communication Association (Interspeech)*, 202–205.
- [C19] Sagae, K., Lehr, M., **Prud’hommeaux, E.**, Xu, P., Glenn, N., Karakos, D., Khudanpur, S., Roark, B., Saraçlar, M., Shafran, I., Bikel, D., Callison-Burch, C., Cao, Y., Hall, K., Hasler, E., Koehn, P., Lopez, A., Post, M., and Riley, D. 2012. Hallucinated n-best lists for discriminative language modeling. In *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 5001–5004.
- [C20] Xu, P., Khudanpur, S., Lehr, M., **Prud’hommeaux, E.**, Glenn, N., Karakos, D., Roark, B., Sagae, K., Saraçlar, M., Shafran, I., Bikel, D., Callison-Burch, C., Cao, Y., Hall, K., Hasler, E., Koehn, P., Lopez, A., Post, M., and Riley, D. 2012. Continuous space discriminative language modeling. In *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2129–2132.
- [C21] Çelebi, A., Sak, H., Dikici, E., Saraçlar, M., Lehr, M., **Prud’hommeaux, E.**, Xu, P., Glenn, N., Karakos, D., Khudanpur, S., Roark, B., Sagae, K., Shafran, I., Bikel, D., Callison-Burch, C., Cao, Y., Hall, K., Hasler, E., Koehn, P., Lopez, A., Post, M., and Riley, D. 2012. Semi-supervised discriminative language modeling for Turkish ASR. In *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 5025–5028.
- [C22] **Prud’hommeaux, E.T.**, and Roark, B. 2011. Alignment of spoken narratives for automated neuropsychological assessment. In *Proceedings of the IEEE Automatic Speech Recognition and Understanding Workshop (ASRU)*, 484–489.
- [C23] **Prud’hommeaux, E.T.**, and Roark, B. 2011. Extraction of narrative recall patterns for neuropsychological assessment. In *Proceedings of the 12th Annual Conference of the International Speech Communication Association (Interspeech)*, 3021–3024.

### Refereed Workshop Proceedings

- [W1] Wang, Y., **Prud’hommeaux, E.**, Asgari, M., Dolata, J. 2020. Automated Scoring of Clinical Expressive Language Evaluation Tasks. In *Proceedings of the 15th Workshop on Innovative Use of NLP for Building Educational Applications (BEA)*, 177–185.
- [W2] Yang, C., **Prud’hommeaux, E.**, Silverman, L.B., Canfield, A. 2020. Toward Characterizing the Language of Adults with Autism in Collaborative Discourse. In *Proceedings of the Workshop on Resources and processing of linguistic, para-linguistic and extra-linguistic data from people with various forms of cognitive, psychiatric, developmental impairments (RaPID-3)*, 54–59.
- [W3] Thai, B., Jimerson, R., Ptucha, R., **Prud’hommeaux, E.** 2020. Fully Convolutional ASR for Less-Resourced Endangered Languages. In *Proceedings of the Workshop on Spoken Language Technologies for Under-resourced Languages (SLTU-CCURL)*, 126–130.
- [W4] Thai, B., Jimerson, R., Arcoraci, D., **Prud’hommeaux, E.**, Ptucha, R. 2019. Synthetic data augmentation for improving low-resource ASR. In *Proceedings of the IEEE Western New York Image and Signal Processing Workshop (WNYISPW)*, 1–9.
- [W5] Meyers, B., Munaiah, N., Meneely, A., and **Prud’hommeaux, E.** 2019. Pragmatic Characteristics of Security Conversations: An Exploratory Linguistic Analysis. In *Proceedings of the 12th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE)*, 79–82.

- [W6] Jimerson, R., Simha, K., Ptucha, R., and **Prud’hommeaux, E.**. 2018. Improving ASR output for endangered language documentation. In *Proceedings of the 6th International Workshop on Spoken Language Technologies for Under-Resourced Languages (SLTU-2018)*, 182–186.
- [W7] Nester, D., Haduong, N., Vaidyanathan, P., **Prud’hommeaux, E.**, Bailey, R., and Alm, C.O. 2018. Multimodal Alignment for Affective Content. In *Proceedings of the AAAI-18 Workshop on Affective Content Analysis (AffCon)*, 21–18.
- [W8] Gangji, A., Walden, T., **Prud’hommeaux, E.**, Bailey, R., and Alm, C.O. 2017. Using co-captured face, gaze and verbal reactions to images of varying emotional content for analysis and semantic alignment. In *Proceedings of the AAAI Workshop on Human-Aware Artificial Intelligence*, 621–627.
- [W9] Oak, M., Behera, A., Thomas, T., Alm, C.O., **Prud’hommeaux, E.**, Homan, C., and Ptucha, R. 2016. Generating clinically relevant texts: A case study on life-changing events. In *Proceedings of the NAACL 2016 Workshop on Computational Linguistics and Clinical Psychology (CLPsych)*, 85–94.
- [W10] Vaidyanathan, P. **Prud’hommeaux, E.**, Alm, C.O., Pelz, J., and Haake, A. 2015. Alignment of Eye Movements and Spoken Language for Semantic Image Understanding. In *Proceedings of the International Workshop on Computational Semantics (IWCS)*, 76–81.
- [W11] Rouhizadeh, M, **Prud’hommeaux, E.**, van Santen, J., and Sproat, R. 2014. Detecting linguistic idiosyncratic interests in autism using distributional semantic models. In *Proceedings of the ACL 2014 Workshop on Computational Linguistics and Clinical Psychology (CLPsych)*, 46–50.
- [W12] **Prud’hommeaux, E.**, and Rouhizadeh, M. 2012. Automatic detection of pragmatic deficits in children with autism. In *Proceedings of the 3rd Workshop on Child, Computer and Interaction (WOCCI 2012)*, 1–6.
- [W13] Morley, E., and **Prud’hommeaux, E.**. 2012. Using constituency and dependency parse features to identify errorful words in disordered language. In *Proceedings of the 3rd Workshop on Child, Computer and Interaction (WOCCI 2012)*, 68–73.
- [W14] **Prud’hommeaux, E.**, and Roark, B. 2012. Graph-based alignment of narratives for automated neuropsychological assessment. In *Proceedings of the Workshop on Biomedical NLP (BioNLP)*, 1–10.
- [W15] **Prud’hommeaux, E.T.**, Roark, B., Black, L.M., van Santen, J. 2011. Classification of atypical language in autism. In *Proceedings of the ACL 2011 Workshop on Cognitive Modeling and Computational Linguistics (CMCL)*, 88–96.
- [W16] Mishra, T., **Prud’hommeaux, E.T.**, van Santen, J. 2007. Word accentuation prediction using a neural net classifier. In *Proceedings of the 6th ISCA Workshop on Speech Synthesis*, 246–251.

## SPONSORED RESEARCH

### Current

- NIH R21DC017000, National Institute on Deafness and Communication Disorders. *Automated analysis of pragmatic language development in ASD* (PI: Prud’hommeaux). 7/15/2018–6/30/2021.
- NSF 1761562, NSF Directorate for Social, Behavioral and Economic Sciences. *Collaborative Research: Deep learning speech recognition for documenting Seneca, a Native American language, and other acutely under-resourced languages* (PI: Prud’hommeaux). 6/1/2018–11/30/2021.
- NIH R01DC013996, National Institute on Deafness and Communication Disorders. *Automatic Voice-Based Assessment of Language Abilities* (PIs: van Santen, Dolata, Asgari; Role: Co-PI). 12/10/2015–11/30/2020.

## Completed

Computing Research Association, CRA Collaborative REU, *Computational Methods to Explore Social Cognitive Processes* (PI: Nwogu; Role: Co-I). 9/1/2017–8/31/2018.

NSF 1559889, NSF Directorate for Computer and Information Science and Engineering. *REU Site: Computational Sensing* (PIs: Alm and Bailey; Role: Senior Personnel). 4/1/2016–3/31/2018.

Hearing Health Foundation, *Auditory Experience, Critical Periods and the Development of Categorical Perception in Cochlear Implant Users: A Preliminary Investigation* (PI: Bochner; Role: Co-I). 6/1/2017–5/31/2018.

## Internal

Boston College Institute for Liberal Arts, Major Grant. *What constitutes intelligence?* (PI: Anzellotti, Role: Co-I). 6/1/2019–5/31/2020.

Boston College Institute for Liberal Arts, Major Grant. *Women in STEM at Boston College* (PI: Tonn, Role: Co-I). 6/1/2018–5/31/2019.

RIT AdvanceRIT NSF Connect Grants Program. *Development of categorical perception in sign and speech: Preliminary investigations* (PI: Prud'hommeaux). 6/1/2016–5/31/2018.

RIT College of Computing and Information Sciences Seed Funding. *Development of Categorical Perception in Sign and Speech: Preliminary Investigations* (PI: Huenerfauth; role: Co-I) 1/1/2016–1/1/2018.

RIT Provost Learning and Innovation Grant. *Enhancing data analysis in language science classrooms with Linguine, a web-based application, and pedagogical case studies* (PIs: Alm and Prud'hommeaux). 3/16/2016–8/23/2017.

RIT Office of the Vice President for Research Seed Funding Award. *Automated language analysis for dementia screening* (PI: Prud'hommeaux). 4/1/2015–3/31/2016.

RIT College of Liberal Arts Proposal Development Grant. *Computational analysis of trajectories of linguistic development in autism* (PIs: Prud'hommeaux and Alm). 2/1/2015–1/31/2016.

## TEACHING

F20	BC	Speech Signal Processing
S20, S19, F18	BC	Computer Science II (Data structures)
F19, S18	BC	Natural Language Processing
S19	BC	Randomness and Computation (Probability)
S17, F15	RIT	Spoken Language Processing (ASR and TTS)
S17, S16	RIT	Introduction to Language Science (Linguistics)
F16	RIT	Science and Analytics of Speech (Experimental Phonetics)
S15	RIT	Language Technology (NLP fundamentals)
F14	RIT	Natural Language Processing in Biomedicine
S14	UR	Art of Programming (Programming for non-majors)
F12	OHSU	Information Extraction and Information Retrieval
S12	OHSU	Topics in NLP: Machine Translation and Summarization

## ADVISING

### Postdoctoral Advising

- Yiyi Wang (PhD UIUC), 2019–
- Zoey Liu (PhD UC Davis), 2020–

## **Graduate Advising**

- Preethi Vaidyanathan, Imaging Science, RIT, PhD 2017
- Robbie Jimerson, Computing and Information Sciences, RIT, PhD 2021 (expected)
- Andamlak Terkik, Computer Science, RIT, MS 2016
- Tre DiPassio, Electrical Engineering, RIT, BS/MS 2018
- Vigneshwar Lakshminarayanan, Computer Engineering, RIT, MS 2021 (expected)
- Ethan Morris, Computer Engineering, RIT, BS/MS 2021 (expected)

## **Graduate Committees**

- Sushant Kafle, Computing and Information Sciences, RIT, PhD 2019
- Bao Thai, Computer Engineering, RIT, BS/MS 2019
- K. Tyler Wilcox, Statistics, RIT, MS 2017
- Sourabh Kulhare, Computer Engineering, RIT, MS 2017
- Suhas Pillai, Computer Science, RIT, MS 2017
- Titus Thomas, Computer Engineering, RIT, MS 2017
- Anil Behera, Computer Science, RIT, MS 2016
- Benjamin Meyers, Computing and Information Sciences, RIT, PhD Qualifying Committee 2019
- Waleed Zogaan, Computing and Information Sciences, RIT, PhD Qualifying Committee 2017
- Paula Garcia, Computing and Information Sciences, RIT, PhD Qualifying Committee 2016
- Joel Adams, Computer Science and Engineering, OHSU, PhD 2020 (expected)

## **Undergraduate Research Supervision**

- Christine Yang, Computer Science and Linguistics, BC, 2019–
- Ethan Morris, Computer Engineering, RIT (NSF REU), 2020
- Duanchen Liu, Computer Science, BC, 2020
- Hannah Jiang, Computer Science, BC, 2020
- Emily Fabius, Psychology and Computer Science, BC 2019
- Erin Corcoran, Computer Science, BC 2019
- Jonathan Lin, Linguistics and Computer Science, BC, 2019
- Samuel Hobson, Computer Science, RIT, 2017-2018
- Benjamin Meyers, Software Engineering, RIT, 2014-2018
- Douglas Gliner, Interactive Games and Media, RIT, 2015-2017
- Alexander Hedges, Computer Science, RIT, 2017
- David Dubois, Software Engineering, RIT, 2017
- Douglas Dlutz, Computer Science, RIT, 2015
- Ben Cohen, Computer Science, RIT, 2015
- David Nester, Eastern Mennonite University (NSF REU at RIT), 2017
- Nikita Haduong, Indiana University (NSF REU at RIT), 2017
- Aliya Gangji, Muhlenberg College (NSF REU at RIT), 2016
- Trevor Walden, RIT (NSF REU at RIT), 2016

## REFEREED CONFERENCE PRESENTATIONS

- Prud'hommeaux, E.**, Jimerson, R., Hatcher, R., Ptucha, R., and Michelson, K. 2019. On the promise and pitfalls of repurposing existing language technologies for endangered language documentation. *Language Technologies for All: Enabling Linguistic Diversity and Multilingualism Worldwide*, UNESCO, Paris.
- Bochner, J., Samar, V., **Prud'hommeaux, E.**, Huenerfauth, M., and Coppock, M. 2019. Categorical Perception in Cochlear Implant Users with Early-Onset Profound Deafness. The 31st Annual Convention of the Association for Psychological Science (APS), Washington, D.C.
- Jimerson, R., Hatcher, R. Ptucha, R., and **Prud'hommeaux, E.** 2019. Speech technology for supporting community-based endangered language documentation. International Conference on Language Documentation & Conservation (ICLDC), Honolulu.
- Hatcher, R., Jimerson, R., Nephew, W., Jones, M., Cordani, J., Cremean, L., and **Prud'hommeaux, E.** 2019. Additional ways of integrating community-based language documentation and language revitalization. International Conference on Language Documentation & Conservation (ICLDC), Honolulu.
- Vaux, B., and **Prud'hommeaux, E.** 2018. Structured variation in English L-allophony. 2018 Old World Conference on Phonology, London.
- Alm, C.O., **Prud'hommeaux, E.T.**, and Meyers, B. 2016. Analyzing Discourse Patterns of Young Adults with ASD. International Meeting for Autism Research, Baltimore.
- Vaidyanathan, P., **Prud'hommeaux, E.**, and Alm, C. 2015. Computational integration of human vision and natural language through bitext alignment. Workshop on Vision and Language Integration, Lisbon.
- Rouhizadeh, M., van Santen, J., Sproat, R., Gorman, K., Heeman, P., Hill, A.P., Bedrick, S., **Prud'hommeaux, E.T.**, and Kiss, G. 2014. Children's Differing Patterns of Discourse Marker Use in ASD and Typical Development. International Meeting for Autism Research, Atlanta.
- van Santen, J. Kain, A., Hill, A.P., **Prud'hommeaux, E.T.**, Ludovise, R., Conway, C., Keepers, G., and Fombonne, E. 2014. Measurement of Crossmodal Integration of Expressive Affect Communication in Autism. International Meeting for Autism Research, Atlanta.
- Prud'hommeaux, E.**, Rouhizadeh, M., Roark, B., van Santen, J. 2013. Identifying Unexpected and Inappropriate Words in ASD Language Samples. International Meeting for Autism Research, San Sebastian.
- Kiss, G., van Santen, J., **Prud'hommeaux, E.**, and Black, L.M. 2013. Intonation Differences of Children with ASD or SLI. International Meeting for Autism Research, San Sebastian.
- van Santen, J., Langhorst, B., Hill, A., Conway, C., Sanger-Hahn, R., Keepers, G., Parmer, M., Ludovise, R., **Prud'hommeaux, E.**, and Kiss, G. 2013. A Computerized Interactive Game for Remediation of Prosody in Children with Autism. International Meeting for Autism Research, San Sebastian.
- Prud'hommeaux, E.**, Roark, B., Black, L.M., and van Santen, J. 2012. Identifying features of ASD language impairment in narrative retellings. International Meeting for Autism Research, Toronto.
- Kiss, G., van Santen, J., **Prud'hommeaux, E.T.**, and Black, L.M. 2012. Quantitative analysis of prosody in conversational speech in ASD and DLD. International Meeting for Autism Research, Toronto.
- Prud'hommeaux, E.T.**, Mitchell, M., and Roark, B. 2011. Using patterns of narrative recall for improved detection of MCI. International Conference on Technology and Aging, Toronto.
- Sproat, R., Black, L.M., **Prud'hommeaux, E.T.**, van Santen, J., and Roark, B. 2011. Automated analysis of natural language samples. International Meeting for Autism Research, San Diego.
- Prud'hommeaux, E.T.**, van Santen, J., Black, L.M., and Roark, B. 2010. Automatic detection of idiosyncratic word use in autism spectrum disorders. International Meeting for Autism Research, Philadelphia.

- Prud’hommeaux, E.T.** 2010. Toward automatic scoring and alignment of narrative recall. Pacific Northwest Regional NLP Workshop, Seattle.
- Vaux, B., and **Prud’hommeaux, E.T.** 2010. Nanovariation in English L allophony. Sixth North American Phonology Conference, Montreal.
- Prud’hommeaux, E.T.**, van Santen, J., Black, L.M. 2009. Automated acoustic analysis of affective and pragmatic prosody in ASD. International Meeting for Autism Research, Chicago.
- Prud’hommeaux, E.T.**, van Santen, J., and Black, L.M. 2009. Automated identification of stress and focus assignment. International Meeting for Autism Research, Chicago.
- van Santen, J., **Prud’hommeaux, E.T.**, Paul, R., and Black, L.M., Shriberg, L. 2008. Expressive prosody in autism: Effects of prosody function and processing demands. International Meeting for Autism Research, London.
- Prud’hommeaux, E.**, van Santen, J., Paul, R., and Black, L. 2008. Automated measurement of prosody in neurodevelopmental disorders. International Meeting for Autism Research, London.
- van Santen, J., Paul, R., Black, L., and **Tucker, E.** 2007. Quantitative analysis of grammatical and pragmatic prosody in ASD. International Meeting for Autism Research, Seattle.

## INVITED TALKS

- Health + Technology Lab, Malmo University. *Clinical semantic fluency scoring as a testbed for evaluating neural word embedding models.* May 2020.
- Computational Psycholinguistics Lab, MIT. *Clinical semantic fluency scoring as a testbed for evaluating neural word embedding models.* April 2020.
- Language Technologies Institute Colloquium, Carnegie Mellon University. *Lions, Tigers, and Barracudas: What can vector space models tell us about semantic fluency?* October 2019.
- Workshop on Language Technology for Language Documentation and Revitalization, Carnegie Mellon University. *ASR-assisted endangered language documentation: Possibilities and challenges.* August 2019.
- AI4All, Boston University. *NLP, Neural Nets, and Neurodevelopment.* July 2019.
- Lexington High School CS Club. *What is natural language processing?* April 2019.
- 2018 Western NY Image and Signal Processing Workshop. *Strengthening and connecting communities with automatic speech recognition.* October 2018.
- Boston College, Computer Science Department. *Computational methods for identifying linguistic markers of neurological disorders.* February 2017.
- Upstate Chapters of the American Statistical Association, Canisius College. *Practical NLP.* April 2016.
- University of Rochester, Computer Science Department. *Evaluating semantic coherence in clinical populations using word embeddings.* April 2016.
- Harley School, Professional Development Workshop. *Using statistics to explore language.* August 2015.
- Toyota Applied Math Initiative (TAMI). *Using statistics to explore human language.* June 2015.
- University of Pennsylvania, Penn Linguistics Conference. *Language and speech technology for automated diagnosis of neurological disorders.* March 2014.
- Rochester Institute of Technology, Department of English. *Automated analysis of spoken language for neurological assessment.* February 2014.
- University of Rochester, Center for Language Sciences Colloquium Series. *Automatic alignment of narrative retellings for neuropsychological assessment and classification.* March 2012.
- University of Cambridge, King’s College Occasional Lecture Series. *Automated measures for assessment of prosody in autism.* November 2009.



## **SERVICE TO THE PROFESSION**

### **Ongoing Service**

- Treasurer, SIG on Speech and Language Processing for Assistive Technologies (SIG-SLPAT), 2017–
- Standing Review Committee, Transactions of the ACL (TACL), 2014–

### **Conference and Workshop Organization**

- Senior Area Chair for Cognitive Modeling, Association for Computational Linguistics (ACL), 2020
- Area Chair, Cognitive Modeling, European Association for Computational Linguistics (EACL), 2020
- Area Chair, Cognitive Modeling, North American Association for Computational Linguistics Human Language Technologies (NAACL-HLT), 2019
- Area Chair, Cognitive Modeling, Association for Computational Linguistics (ACL), 2019
- Co-organizer, Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), 2019
- Co-organizer, Computational Linguistics and Clinical Psychology Workshop (CLPsych), 2018

### **Funding Agency Reviewing**

- National Institutes of Health, Panel Reviewer, 2020
- National Science Foundation, Panel Reviewer, 2018, 2020
- National Science Foundation, Ad-Hoc Reviewer, 2018
- Natural Sciences and Engineering Research Council of Canada (NSERC), External Reviewer, 2018
- Canadian Institutes of Health Research (CIHR), External Reviewer, 2015

### **Conference and Workshop Program Committees**

- Association for Computational Linguistics (ACL), 2015, 2017, 2018, 2019, 2020
- Empirical Methods in Natural Language Processing (EMNLP), 2016, 2017, 2018, 2020
- Asia-Pacific Chapter of the Association for Computational Linguistics (AAACL), 2020
- Conference on Computational Natural Language Learning (CoNLL), 2020
- North American Association for Computational Linguistics (NAACL-HLT), 2014, 2015, 2016, 2018, 2019
- Interspeech, 2019, 2020
- Language Resource and Evaluation Conference (LREC), 2020
- Computational Linguistics and Clinical Psychology Workshop, 2014, 2016, 2017, 2018
- Workshop on Human-Centered Computational Sensing (HCCS), 2018, 2020
- Workshop on Stylistic Variation, 2018
- ACL Student Research Workshop, 2017, 2018
- NAACL Student Research Workshop, 2018
- Workshop on Child, Computer and Interaction (WOCCI), 2012, 2014, 2016, 2017
- Workshop on Biomedical Natural Language Processing (BioNLP), 2014
- Diversity and Inclusion Committee, Parental Inclusion Committee, Co-Chair, NAACL-HLT, 2019
- Best Paper Committee, NAACL-HLT, 2019

### **Journal Reviewing**

*Transactions of the ACL* (2014–); *Cognitive Science* (2020); *Language Resources and Evaluation* (2020); *Transactions on Affective Computing* (2019); *Harvard Undergraduate Research Journal* (2018); *Research in Developmental Disabilities* (2018); *Computer Speech and Language* (2018); *PLOS Computational Biology* (2017); *Brain and Cognition* (2017); *Aphasiology* (2016); *International Clinical Phonetics and Linguistics Association* (2016); *BMC Bioinformatics*, (2015, 2016); *Speech Communication* (2014); *Journal of Artificial Intelligence in Medicine* (2013); *Journal of Communication Disorders* (2013).

## **SERVICE TO THE UNIVERSITY**

BC Faculty Mentor, McNair Exploratory Program, 2019–  
BC Search Advisory Committee for Schiller Institute Director, 2019  
BC Faculty Advisor to the Women in Computer Science student organization, 2018–  
BC Committee on Data & Information Governance, 2018–2020  
RIT Office of the VP for Research Seed Funding Review Committee, 2016–2017  
RIT College of Liberal Arts Undergraduate Scholarship Review Committee, 2017  
RIT English Department Scheduling Assistant, 2016–2017  
RIT English Department Chair’s Cabinet, 2016–2017  
RIT English Department Marketing Committee, 2015–2017

## **HONORS ET CETERA**

Endowed Chair: Gianinno Family Sesquicentennial Assistant Professor, BC, 2020–  
Best Paper Award Runner-up, IEEE WNYISPW, 2019  
JHU SALT Workshop, Senior Affiliate, 2019  
Best Paper Award, ACM Symposium on Eye Tracking Research, 2016  
Panel Member, New Applications in Speech Processing Session, ASRU, 2011  
JHU CLSP Workshop, Graduate Student Member, 2011  
Student Award for Significant Achievement in Education, OHSU, 2007  
Speech Application Best-of-Contest Award, AVIOS, 2006  
Predoctoral Fellowship, Autism Speaks, 2006-2008  
Jacob K. Javits Fellowship, U.S. Department of Education, 1997-2000  
Thomas T. Hoopes Prize, Harvard College, 1996