

# EMILY TUCKER PRUD’HOMMEAUX

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## CONTACT

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## EDUCATION

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

## ACADEMIC APPOINTMENTS

2024 –	Associate Professor, Computer Science, Boston College
2020 – 2024	Gianinno Family Sesquicentennial Assistant Professor, Computer Science, Boston College
2018 – 2020	Assistant Professor, Computer Science, Boston College
2018 – 2023	Research Faculty, Rochester Institute of Technology
2014 – 2018	Assistant Professor, Rochester Institute of Technology
2013 – 2014	Postdoctoral Fellow, University of Rochester
2012 – 2013	Senior Research Associate, Oregon Health & Science University

## INDUSTRY POSITIONS

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

## PUBLICATIONS

*\* indicates student or postdoc author*

### Journal Articles

- [J1] Liu, Z. and **Prud’hommeaux, E.** 2023. Data-driven Parsing Evaluation for Child-Parent Interactions. *Transactions of the Association for Computational Linguistics* 11:1734–1753.
- [J2] Bochner, J., Samar, V., **Prud’hommeaux, E.**, and Huenerfauth, M. 2022. Phoneme Categorization in Prelingually Deaf Adult Cochlear Implant Users. *Journal of Speech, Language, and Hearing Research* 65(11):4429–4453.
- [J3] \*Liu, Z. and **Prud’hommeaux, E.** 2022. Data-driven model generalizability in crosslinguistic low-resource morphological segmentation. *Transactions of the Association for Computational Linguistics* 10:393–413.
- [J4] **Prud’hommeaux, E.**, \*Jimerson, R., \*Hatcher, R., and Michelson, K. 2021. Automatic speech recognition for supporting endangered language documentation. *Language Documentation & Conservation* 15:491–513.

- [J5] Gale, R., Bird, J., \*Wang, Y., van Santen, J., **Prud’hommeaux, E.**, Dolata, J., and Asgari, M. 2021. Automated Scoring of Tablet-Administered Expressive Language Tests. *Frontiers in Psychology* 12:2986–2996.
- [J6] \*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.
- [J7] **Prud’hommeaux, E.** and Roark, B. 2015. Graph-based word alignment for clinical language evaluation. *Computational Linguistics*, 41(4):549–578.
- [J8] van Santen, J., **Prud’hommeaux, E.T.**, Black, L.M., Mitchell, M. 2010. Computational prosodic markers for autism. *Autism*, 14(3):215–236.
- [J9] van Santen, J., **Prud’hommeaux, E.T.**, Black, L.M. 2009. Automated assessment of prosody production. *Speech Communication*, 51(11):1082–1097.

### Papers in Refereed Conference Proceedings

- [C1] \*Tapo, A., \*Le Ferrand, É., Liu, Z., Homan, C., and **Prud’hommeaux, E.** Accepted. Leveraging Speech Data Diversity to Document Indigenous Heritage and Culture. To appear in *Proceedings of the Annual Conference of the International Speech Communication Association (Interspeech)*.
- [C2] Liu, Z., \*Venkateswaran, N., \*Le Ferrand, É., and **Prud’hommeaux, E.**. 2024. How Important is a Language Model for Low-resource ASR? In *Findings of the Association for Computational Linguistics (ACL Findings)*, 206–213.
- [C3] \*Jimerson, R., Liu, Z., and **Prud’hommeaux, E.** 2023. An (unhelpful) guide to selecting the best ASR architecture for your under-resourced language. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL)*, 1008–1016.
- [C4] \*Liu, Z., Spence, J., and **Prud’hommeaux, E.** 2023. Investigating data partitioning strategies for crosslinguistic low-resource ASR evaluation. In *Proceedings of the Annual Meeting of the European Association for Computational Linguistics (EACL)*, 123–131.
- [C5] \*Liu, D., \*Liu, Z., \*Yang, Q., \*Huang, Y., and **Prud’hommeaux, E.** 2022. Evaluating the Performance of Transformer-based Language Models for Neuroatypical Language. In *Proceedings of the 29th International Conference on Computational Linguistics (COLING)*, 3412–3419.
- [C6] \*Liu, Z., \*Eisape, T., **Prud’hommeaux, E.**, and Hartshorne, J. 2022. Data-driven Crosslinguistic Syntactic Transfer in Second Language Learning. In *Proceedings of the Annual Meeting of the Cognitive Science Society (CogSci2022)*, 1903–1911. (Non-archival)
- [C7] \*Damiana, R., Homan, C., and **Prud’hommeaux, E.** 2022. Combining Simple but Novel Data Augmentation Methods for Improving Conformer ASR. In *Proceedings of the Annual Conference of the International Speech Communication Association (Interspeech)*, 4890–4894.
- [C8] \*Liu, Z., \*Richardson, C., \*Hatcher, R. and **Prud’hommeaux, E.** 2022. Not always about you: Prioritizing community needs when developing endangered language technology. In *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL)*, 3933–3944.
- [C9] Batsuren, K., Goldman, O., Khalifa, S., Habash, N., Kieraś, W., Bella, G., Leonard, B., Nicolai, G., Gorman, K., Ghanggo Ate, Y., Ryskina, M., Mielke, S. J., Budianskaya, E., El-Khaissi, C., Pimentel, T., Gasser, M., Lane, W., Raj, M., Coler, M., Montoya Samame, J.R. , Siconatzi Camaiteri, D., Sagot, B., Zumaeta Rojas, E., López Francis, D., Oncevay, A., López Bautista, J., Silva Villegas, G.C., Torroba Hennigen, L, Ek, A., Guriel, D., Dirix, P., Bernardy, J.-P., Scherbakov, A., Bayyr-ool, A., Anastasopoulos, A., Zariquiey, R., Sheifer, K., Ganieva, S., Cruz, H., Karahóga, R., Markantonatou, S., Pavlidis, G., Plugaryov, M., Klyachko, E., Salehi, A., Angulo, C., Baxi, J., Krizhanovsky, A., Krizhanovskaya, N., Salesky, E., Vania, C., Ivanova, S., White, J., Hall Maudslay, R., Valvoda, J.,

- Zmigrod, R., Czarnowska, P., Nikkarinen, I., Salchak, A., Bhatt, B., Straughn, C., Liu, Z., North Washington, J., Pinter, Y., Ataman, D., Wolinski, M., Suhardijanto, T., Yablonskaya, A., Stoehr, N., Dolatian, H., Nuriah, Z., Ratan, S., Tyers, F.M., Ponti, E.M., Aiton, G., Arora, A., Hatcher, R.J., Kumar, R., Young, J., Rodionova, D., Yemelina, A., Andrushko, T., Marchenko, I., Mashkovtseva, P., Serova, A., **Prud’hommeaux, E.**, Nepomniashchaya, M., Giunchiglia, F., Chodroff, E., Hulden, M., Silfverberg, M., McCarthy, A.D., Yarowsky, D., Cotterell, R., Tsarfaty, R., and Vylomova, E. 2022. UniMorph 4.0: Universal Morphology. In *Proceedings of the Thirteenth Language Resources and Evaluation Conference (LREC)*, 840–855.
- [C10] \*Morris, E., \*Jimerson, R., and **Prud’hommeaux, E.** 2021. One size does not fit all in resource-constrained ASR. In *Proceedings of the Annual Conference of the International Speech Communication Association (Interspeech)*, 4354–4358.
- [C11] 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 (EMBC)*, 6111–6114.
- [C12] \*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.
- [C13] \*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.
- [C14] \*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.
- [C15] **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.
- [C16] 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.
- [C17] \*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.
- [C18] \*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.
- [C19] \*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.
- [C20] \*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**
- [C21] \*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.

- [C22] \*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.
- [C23] \*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.
- [C24] \*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.
- [C25] \*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.
- [C26] \*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.
- [C27] 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.
- [C28] 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.
- [C29] 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.
- [C30] 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.
- [C31] **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.

#### Papers in Refereed Workshop Proceedings

- [W1] \*Le Ferrand, É., Heaton, R., and **Prud’hommeaux, E.** Accepted. Enenlhet as a case-study to investigate ASR model generalizability for language documentation. In *Proceedings of the Fourth Workshop on NLP for Indigenous Languages of the Americas (AmericasNLP)*, 132–137.
- [W2] \*Le Ferrand, É. and **Prud’hommeaux, E.** 2024. Automatic Transcription of Grammaticality Judgments for Language Documentation. In *Proceedings of the Seventh Workshop on the Use of Computational Methods in the Study of Endangered Languages (ComputEL-7)*, 33–38.

- [W3] \*Lakshminarayanan, V. and **Prud’hommeaux, E.** 2024. Exploring the impact of noise in low-resource ASR for Tamil. In *Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, 30–34.
- [W4] \*Liu, Z., Spence, J., and **Prud’hommeaux, E.** 2023. Studying the impact of language model size for low-resource ASR. In *Proceedings of the Sixth Workshop on the Use of Computational Methods in the Study of Endangered Languages (ComputEL-6)*, 77–83.
- [W5] \*Liu, Z., Spence, J., and **Prud’hommeaux, E.** 2022. Enhancing Documentation of Hupa with Automatic Speech Recognition. In *Proceedings of the Fifth Workshop on the Use of Computational Methods in the Study of Endangered Languages (ComputEL-5)*, 187–192.
- [W6] \*Yang, C., \*Liu, D., \*Yang, Q., \*Liu, Z., and **Prud’hommeaux, E.** 2021. Predicting pragmatic discourse features in the language of adults with autism spectrum disorder. In *Proceedings of the Association for Computational Linguistics Student Research Workshop (ACL-SRW)*, 284–291.
- [W7] Pimentel, T., Ryskina, M., Mielke, S.J., Wu, S., Chodroff, E., Leonard, B., Nicolai, G., Ate, Y.G., Khalifa, S., Habash, N., El-Khaisi, C., Goldman, O., Gasser, M., Lane, W., Coler, M., Oncevay, A., Montoya Samame, J.R., Silva Villegas, G.C., Ek, A., Bernardy, J.-P., Shcherbakov, A., Bayyr-ool, A., Sheifer, K., Ganieva, S., Plugaryov, M., Klyachko, E., Salehi, A., Krizhanovsky, A., Krizhanovsky, N., Vania, C., Ivanova, S., Salchak, A., Straughn, C., Liu, Z., Washington, J.N., Ataman, D., Kieraś, W., Woliński, M., Suhardijanto, T., Stoehr, N., Nuriah, Z., Ratan, S., Tyers, F.M., Ponti, E.M., Aiton, G., Hatcher, R.J., **Prud’hommeaux, E.**, Kumar, R., Hulden, M., Barta, B., Lakatos, D., Szolnok, G., Ács, J., Raj, M., Yarowsky, D., Cotterell, R., Ambridge, B., Vylomova, E. 2021. Sigmorphon 2021 shared task on morphological inflection: Generalization across languages. In *Proceedings of the 18th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 229-259.
- [W8] \*Liu, Z., \*Jimerson, R., and **Prud’hommeaux, E.** 2021. Morphological Segmentation for Seneca. In *Proceedings of the First Workshop on NLP for Indigenous Languages of the Americas (AmericasNLP)*, 90–101.
- [W9] \*Liu, Z. and **Prud’hommeaux, E.** 2021. Dependency Parsing Evaluation for Low-resource Spontaneous Speech. In *Proceedings of the Second Workshop on Domain Adaptation for NLP (Adapt-NLP)*, 156–165.
- [W10] \*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.
- [W11] \*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.
- [W12] \*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.
- [W13] \*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.
- [W14] \*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.

- [W15] \*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.
- [W16] \*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.
- [W17] \*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.
- [W18] \*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.
- [W19] \*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.
- [W20] **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.
- [W21] \*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.
- [W22] **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.
- [W23] 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.
- [W24] **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.
- [W25] **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.
- [W26] **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.
- [W27] 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

### External

NSF 2319296, SBE (Dynamic Language Infrastructure). *Bootstrapping a Corpus of Endangered Languages* (PI: Prud’hommeaux). 9/1/2023–8/31/2026. (\$436,423)

NSF 2127309 via Computing Research Association, CRA Computing Innovations Fellow Program. *Data-driven Evaluation for Crosslinguistic Low-resource NLP* (PI: Bradley; Role: Subaward PI/Postdoc Mentor). 9/1/2021–12/31/2022. (\$265,516)

NSF 1761562, CISE (Robust Intelligence) and SBE (Documenting Endangered Languages). *Collaborative Research: Deep learning speech recognition for documenting Seneca, a Native American language, and other acutely under-resourced languages* (PI: Prud'hommeaux). 6/1/2018–11/30/2022. (\$196,041)

NIH R21DC017000, National Institute on Deafness and Communication Disorders. *Automated analysis of pragmatic language development in ASD* (PI: Prud'hommeaux). 7/15/2018–6/30/2022. (\$529,985)

NIH R01DC013996, National Institute on Deafness and Communication Disorders. *Automatic Voice-Based Assessment of Language Abilities* (PIs: van Santen, Dolata, Asgari; Role: Subaward Site PI). 12/10/2015–11/30/2020. (\$190,244 of \$2.8M)

Computing Research Association, CRA Collaborative REU, *Computational Methods to Explore Social Cognitive Processes* (PI: Nwogu; Role: Co-I). 9/1/2017–8/31/2018. (\$10,500)

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. (\$23,616)

NSF 1559889, CISE. *REU Site: Computational Sensing* (PIs: Alm and Bailey; Role: Senior Personnel). 4/1/2016–3/31/2018. (\$359,866)

### Internal

Boston College Schiller Institute Grants for Exploratory Collaborative Scholarship. *Promoting Breastfeeding: A Qualitative and Data Science Approach to Better Understand Triple Feeding* (PI: Camp; Role: co-I). 6/1/2024–5/31/2025.

Boston College Office of the Provost and Dean of Faculties, Research Across Departments and Schools Grant. *Leveraging advances in machine learning to support research in child language development* (PIs: Hartshorne and Prud'hommeaux). 6/11/2021–5/31/2023. (\$39,500)

Boston College Office of the Provost and Dean of Faculties, Research Across Departments and Schools Grant. *Trajectories of knowledge in the field of health disparities: Examining reward and exclusion among knowledge producers* (PI: Abuelezam, Role: Co-I). 6/11/2021–5/31/2023. (\$47,080)

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. (\$23,605)

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. (\$4,620)

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. (\$10,000)

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. (\$5,000)

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. (\$5,000)

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. (\$9,996)

## TEACHING

S24, F24	BC	Data Science Principles
S24	BC	Documenting Endangered Languages with Data Science
F23	BC	Text Processing
F22, F19, S18	BC	Natural Language Processing
F22, S21	BC	Computer Science I
F20	BC	Speech Signal Processing
S20, S19, F18	BC	Computer Science II
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 Supervision

- Éric Le Ferrand (PhD Darwin University), 2023–
- Yujing Huang (PhD Harvard), 2021–2023
- Zoey Liu (PhD UC Davis, CRA/NSF Computing Innovation Fellow), 2020–2022
- Yiyi Wang (PhD UIUC), 2019–2020

### Graduate Advising

- Robbie Jimerson, Computing and Information Sciences, RIT, PhD 2024
- Vigneshwar Lakshminarayanan, Computer Engineering, RIT, MS 2022
- Ethan Morris, Computer Engineering, RIT, BS/MS 2021
- Tre DiPassio, Electrical Engineering, RIT, BS/MS 2018
- Preethi Vaidyanathan, Imaging Science, RIT, PhD 2017
- Andamlak Terkik, Computer Science, RIT, MS 2016

### Graduate Committees

- Allahsera Tapo, Computing and Information Sciences, RIT, PhD 2026 (expected)
- Benjamin Meyers, Computing and Information Sciences, RIT, PhD 2023
- Éric Le Ferrand, Natural Language Processing, Charles Darwin University, PhD 2023
- Ronit Damania, Computer Science, RIT, MS, 2021
- Bao Thai, Computer Engineering, RIT, BS/MS 2019
- Sushant Kafle, Computing and Information Sciences, RIT, PhD 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

### Undergraduate Honors Thesis Supervision

- Riteng Zhang, Computer Science, BC, Scholar of the College, McCarthy Prize, 2024 (Primary advisor)
- Annie Liu, History and Linguistics, BC, Scholar of the College, 2024 (Second Reader)
- Heesu Yun, Psychology, BC, 2023 (Second Reader)
- Rachel Duquette, Computer Science, BC, 2021 (Primary advisor)

**Undergraduate Research Supervision:** Jude Lascano (NSF REU), CS, BC, 2024–; Omar Tall (NSF REU), CS, BC, 2024–; Emily Hayes, CS and Linguistics, BC, 2024–; Maggie Berkley, CS and Linguistics, BC, 2024–; Talia Potter, CS, BC, 2024–; Bo Jiang, CS and Physics, BC, 2023–; Julie Hohenberg, CS, BC, 2023–2024; Danni Qu, CS and Math, BC, 2023–2024; Annie Liu, Linguistics and History, BC, 2023–2024; Gavin Zhang, CS and Math, BC, 2023–2024; Kevin Koh, CS, BC, 2023–2024; Alexandra Green, CS and Linguistics, Duke, 2022–2023; Dyson Ye, CS and Linguistics, BC, 2021–2023; Duanchen Liu, CS and Psychology, BC, 2020–2022; Qingyun Yang, CS and Psychology, BC, 2021–2022; Jeremy Chan, CS, BC, 2022; Christine Yang, CS and Linguistics, BC, 2018–2021; David Osei, CS, BC (NSF REU) 2021; Tianshu Wang, CS, BC, 2021; Erin Balengee, CS, BC, 2021; Emily Fabius, CS and Psychology, BC 2019–2021; Ethan Morris, Computer Engineering, RIT (NSF REU), 2020; Hannah Jiang, CS, BC, 2020; Seung Kim, Linguistics, BC, 2020; Ethan Yates, Linguistics, BC, 2020; Reuben Allik, Economics, BC, 2020; Bojun Li, CS, BC, 2020; Mika Chestnutt, CS, BC, 2019; Nwamaka Nnaeto, CS, BC, 2019; Caroline Humphrey, CS, BC, 2019; Elizabeth Hanley, CS, BC, 2019; Abigail Conrad, CS, BC, 2019; Charles Utsch, CS, BC, 2019; Alexandro Forte, CS, BC, 2019; Jonathan Lin, Linguistics and CS, BC, 2019–2020; Catherine Nemecheck, Computer Science, RIT, 2017–2018; 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), 2017; Nikita Haduong, Indiana University (NSF REU), 2017; Aliya Gangji, Muhlenberg College (NSF REU), 2016; Trevor Walden, RIT (NSF REU), 2016.

### REFEREED/INVITED CONFERENCE PRESENTATIONS

- Hartshorne, J., \*Le Ferrand, É., Sung, L.-M. and **Prud’hommeaux, E.** 2024. FormosanBank and why you should use it. Architectures and Mechanisms in Language Processing (AMLaP), Edinburgh.
- Hartshorne, J., **Prud’hommeaux, E.**, Sung, L.-M., and \*Le Ferrand, É. 2024. Rapidly building the missing infrastructure for language science: A case study with Formosan languages. Crosslinguistic Perspectives on Processing and Learning (X-PPL), Zurich.
- Flanagan, J., Connolly, M., Coakley, A., **Prud’hommeaux, E.**, Fugate, M. and Young, C. 2024. Understanding the Needs of Informal Caregivers of People Experiencing Dementia as Identified on Social Media. Gerontological Society of America 2024 Annual Scientific Meeting (GSA), Seattle.
- \*Liu, Z., **Prud’hommeaux, E.**, and Hartshorne, J. 2023. Uncovering cross-linguistic morphosyntactic transfer in second-language learning. Many Paths to Language Conference (MPaL), Nijmegen, Netherlands.
- \*Liu, Z., **Prud’hommeaux, E.**, and Hartshorne, J. 2023. Uncovering crosslinguistic morphosyntactic transfer in second language learning. Boston University Conference on Language Development (BUCLD), Boston.
- \*Liu, Z., \*Eisape, T., **Prud’hommeaux, E.**, and Hartshorne, J. 2022. Uncovering crosslinguistic morphosyntactic transfer in second language learning. Architectures and Mechanisms of Language Processing (AMLaP), York, UK.

- \*Liu, Z., **Prud'hommeaux, E.**, and Spence, J. 2022. Automated Morphological Analysis of Hupa. Annual Meeting of the Society for the Study of the Indigenous Languages of the Americas (SSILA), virtual.
- \*Yang, C., \*Liu, D., \*Canfield, A., Hoffkins, C., Aldrich, J., Farash, S., Silverman, L., and **Prud'hommeaux, E.** 2021. Distinctive Features of Pragmatic Expression in Adults with ASD. Annual Conference of the International Society for Autism Research (INSAR-2021), virtual.
- \*Morris, E., \*Jimerson, R., and **Prud'hommeaux, E.** 2021. Investigating the utility of custom ASR architectures for existing African language corpora. Second Workshop on African Natural Language Processing (AfricaNLP), virtual.
- \*Hatcher, R., \*Jimerson, R., **Prud'hommeaux, E.**, and Michelson, K. 2021. Corpus Phonetic Investigation into Seneca Accentuation. International Conference on Language Documentation & Conservation (ICLDC-7), virtual.
- 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-6), Honolulu.
- \*Hatcher, R., \*Jimerson, R., Nephew, W., Jones, M., \*Cordani, J., \*Creman, L., and **Prud'hommeaux, E.** 2019. Additional ways of integrating community-based language documentation and language revitalization. International Conference on Language Documentation & Conservation (ICLDC-6), 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 (IMFAR), 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 (IMFAR), 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 (IMFAR), 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 (IMFAR), 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 (IMFAR), 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 (IMFAR), 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 (IMFAR), 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 (ICTA), 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 (IMFAR), San Diego.
- Prud’hommeaux, E.T.**, van Santen, J., Black, L.M., and Roark, B. 2010. Automatic detection of idiosyncratic word use in ASD. International Meeting for Autism Research (IMFAR), Philadelphia.
- Prud’hommeaux, E.T.** 2010. Toward automatic scoring and alignment of narrative recall. Pacific Northwest Regional NLP Workshop (NW-NLP), 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 (IMFAR), 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 (IMFAR), 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 (IMFAR), 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 (IMFAR), 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 (IMFAR), Seattle.

## INVITED TALKS

- Field Matters Workshop, Keynote Talk, EMNLP, Bangkok. *What role can ASR play in real-world language documentation?* August 2024.
- Institute for Information Science, Academia Sinica, Taipei, Taiwan. *Adventures in Automatic Speech Recognition for Language Documentation.* December 2023.
- Indigenous Languages Research and Development Foundation, Taipei, Taiwan. *Leveraging speech technology for endangered language documentation.* December 2023.
- Center for Language and Speech Processing Seminar, Johns Hopkins University. *Endangered or just under-resourced? Evaluating ASR quality and utility when data is scarce.* March 2023.
- Computational Linguistics Colloquium, Brandeis University. *Does data partitioning matter when evaluating ASR performance for under-resourced languages?* February 2023.
- SFARI-MIT Workshop on Conversation, Simons Foundation. *Can large language models reliably model atypical language?* December 2022.
- Association of College and Research Libraries. *Answering Complex Research Questions by Promoting Cross-Department Collaborations.* October 2022.
- CLingDing Colloquium, Indiana University. *Integrating speech technology in the endangered language documentation pipeline.* April 2022.

Seminaire du LLACAN, Centre National de la Recherche Scientifique (CNRS). *Integrating machine learning in the language documentation pipeline*. March 2022.

Department of Computational Linguistics, University of Zurich. *Computational modeling of semantic fluency responses for clinical assessment*. October 2021.

Special Interest Group on Endangered Languages (SIGEL) Speaker Series. Panel on Automatic Speech Recognition in Native American Languages. October 2021.

Math and Machine Learning Seminar, Boston College. *Neural nets in natural language processing*. October 2021.

Department of Psychology and Neuroscience Colloquium, Boston College. *What can contextualized language models tell us about atypical language?* October 2021.

Symposium on Data Science in Clinical Settings, Fundación INECO. *Computational modeling of semantic fluency responses for clinical assessment*. June 2021.

Children’s Hospital Research Institute, University of British Columbia. *Integrating computational modeling of speech and language into clinical assessment*. February 2021.

Health + Technology Lab, Malmo University. *Clinical semantic fluency scoring as a testbed for evaluating neural word embedding models*. May 2020.

Computational Psycholinguistics Lab, Massachusetts Institute of Technology. *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 IEEE 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.

Penn Linguistics Conference, University of Pennsylvania. *Language and speech technology for automated diagnosis of neurological disorders*. March 2014.

Rochester Institute of Technology College of Liberal Arts. *Automated analysis of spoken language for neurological assessment*. February 2014.

Center for Language Sciences Colloquium Series, University of Rochester *Automatic alignment of narrative retellings for neuropsychological assessment and classification*. March 2012.

King’s College Occasional Lecture Series, University of Cambridge *Automated measures for assessment of prosody in autism*. November 2009.

## **SERVICE TO THE PROFESSION**

### **Long-term Service**

- Senior Action Editor, ACL Rolling Review (ARR), 2022–
- Standing Review Committee, Transactions of the ACL (TACL), 2014–
- Vice President (pro-tem), ACL SIG on Writing Systems and Written Language (SIGWrit), 2023–
- Action Editor, ACL Rolling Review (ARR), 2021–2022
- Secretary-Treasurer, ACL SIG on Speech & Language Processing for Assistive Technologies, 2017–2023

### **Conference and Workshop Leadership and Organization**

- Organizing Committee, Student Volunteer Co-Chair, EMNLP 2024
- Senior Area Chair, Multilingualism and Cross-Lingual NLP, ACL 2025
- Senior Area Chair, Linguistic Theories, Cognitive Modeling, and Psycholinguistics, EACL 2024
- Senior Area Chair, Linguistic Diversity, ACL 2023
- Senior Area Chair, Cognitive Modeling and Psycholinguistics, ACL 2020
- Senior Area Chair, Cognitive Modeling and Psycholinguistics, NAACL-HLT 2019
- Area Chair, Language Resources and Evaluation, COLING 2025
- Area Chair (ARR AE), ACL 2024
- Area Chair (ARR AE), NAACL-HLT 2024
- Area Chair, Corpora and Annotation, LREC-COLING 2024
- Area Chair, Phonology, Morphology, and Word Segmentation, EMNLP 2023
- Area Chair, Resources and Evaluation, EACL 2023
- Area Chair, Theme Track: Open questions, major obstacles, and unresolved issues in NLP, EMNLP 2022
- Area Chair, Theme Track: Language Diversity: from Low-Resource to Endangered Languages, ACL 2022
- Area Chair, Speech and Phonology, CoNLL 2022
- Area Chair, Cognitive Modeling and Psycholinguistics, NAACL-HLT 2021
- Area Chair, NLP Applications, ACL 2021
- Area Chair, Cognitive Modeling and Psycholinguistics, EACL 2021
- Area Chair, Psycholinguistics, Cognitive Linguistics and Semantic Processing, \*SEM 2021
- Area Chair, Cognitive Modeling and Psycholinguistics, ACL 2019
- Co-organizer/co-chair, Computational Linguistics and Clinical Psychology Workshop, 2018, 2024
- Co-organizer, Workshop on Computation and Written Language (CAWL) 2024
- Co-organizer, Workshop Interaction-centric Autism Research and Diagnosis, 2023
- Co-organizer, Workshop on Speech and Language Processing for Assistive Technologies, 2019, 2022
- Best Paper Committee, NAACL-HLT 2019, 2022
- Tutorials Program Committee, ACL/NAACL/EMNLP/COLING 2022
- Diversity and Inclusion Committee, Academic Inclusion Co-Chair, ACL 2020
- Diversity and Inclusion Committee, Parental Inclusion Co-Chair, NAACL-HLT 2019

### **External Agency Reviewing**

- National Institutes of Health, Review Panelist, 2020, 2021, 2023, 2024 (x3)
- National Science Foundation, Review Panelist, 2018, 2020, 2021, 2021, 2023
- National Science Foundation, Ad-Hoc Reviewer, 2018, 2021, 2022, 2024

- Dutch Research Council, External Reviewer, 2022
- College Board, AP CSP Exam Reviewer, 2022
- 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, 2021, 2022, 2023, 2024, 2025
- Empirical Methods in Natural Language Processing (EMNLP), 2016, 2017, 2018, 2020, 2021, 2022, 2023, 2024
- North American Association for Computational Linguistics (NAACL-HLT), 2014, 2015, 2016, 2018, 2019, 2021, 2022, 2024
- Interspeech, 2019, 2020, 2021, 2022, 2023, 2024
- European Association for Computational Linguistics (EACL), 2021, 2023, 2024
- International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2021, 2022, 2023, 2024
- COLING, 2025
- LREC-COLING, 2024
- Asia-Pacific Chapter of the Association for Computational Linguistics (AACL), 2020, 2022, 2023
- Conference on Computational Natural Language Learning (CoNLL), 2020, 2021, 2022
- Language Resource and Evaluation Conference (LREC), 2020
- Field Matters Workshop, 2023, 2024
- Workshop on Computation and Written Language (CAWL), 2023, 2024
- Workshop on the Use of Computational Methods in the Study of Endangered Languages (ComputEL), 2022, 2024
- Computational Linguistics and Clinical Psychology Workshop, 2014, 2016, 2017, 2018, 2021, 2022, 2024
- Workshop on Resources and Processing of linguistic, para-linguistic and extra-linguistic Data from people with various forms of cognitive, psychiatric and/or developmental impairments (RaPID), 2022, 2024
- Workshop on Human-Centered Computational Sensing (HCCS), 2018, 2020, 2022
- Workshop on NLP for Indigenous Languages of the Americas (AmericasNLP), 2021
- Workshop on Language Technology for Equality, Diversity, and Inclusion, 2021
- 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

### **Ad-hoc Journal Reviewing**

*Transactions of the ACL* (2014–); *Dialogue and Discourse* (2024); *Research in Autism Spectrum Disorders* (2024); *Frontiers in Aging* (2024); *Autism* (2023); *IEEE Transactions of Audio, Speech, and Language* (2020, 2022, 2023); *Scientific Reports* (2023); *Schizophrenia Research* (2022); *East European Journal of Psycholinguistics* (2022); *Journal of Autism and Developmental Disorders* (2021); *Language Resources and Evaluation* (2020, 2021); *Frontiers in Psychology* (2021); *Cognitive Science* (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 CS/Neuroscience Joint Faculty Search Committee, 2024  
BC CS Chair of Tenure-Track Faculty Search Committee, 2023–2024  
BC Data Science Program Director Search Committee, 2023–2024  
BC Research Computing Committee, 2023–  
BC Gabelli Presidential Scholars Mentor, 2023–  
BC Faculty Mentor, McNair Exploratory Program, 2019–  
BC Faculty Advisor to the Women in Computer Science student organization, 2018–  
BC CS Department Course Scheduling Committee, 2022–  
BC Postdoc Policy Review Committee, 2022–2023  
BC Gabelli Presidential Scholars Faculty Interviewer, 2021, 2023, 2024  
BC Schiller Institute Faculty Search Committee, 2021–2022  
BC Search Advisory Committee for Schiller Institute Director, 2019  
BC Committee on Data & Information Governance, 2018–2019  
RIT College of Liberal Arts Undergraduate Scholarship Review Committee, 2017  
RIT Office of the VP for Research Seed Funding Review Committee, 2016–2017  
RIT English Department Scheduling Assistant, 2016–2017  
RIT English Department Chair’s Cabinet, 2016–2017

## **HONORS ET CETERA**

Endowed Chair: Gianinno Family Sesquicentennial Assistant Professor, BC, 2020–2024  
Advisory Board, EVKids, 2022–  
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