

Publications

Peer-Reviewed Conference & Workshop Papers

- Speech Prosody 2026* Salem, A., & Levitan, S. I. (2026). Evaluating Question Prosody in Text-to-Speech Software. *Speech Prosody 2026*, 128–133. <https://doi.org/10.21437/SpeechProsody.2026-26>
- NeurIPS Workshop 2025* Salem, A. C., Shokri, M., Devaney, J. (2025). Chord-conditioned Melody and Bass Generation. *AI for Music (AI4Music) Workshop*. The Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS). <https://openreview.net/pdf?id=xFetnk5I6o>
- NeurIPS Workshop 2025* Shokri, M., Salem, A. C., Devaney, J. (2025). Narrative2Music: Generating Emotion-Aligned Music for Sentences. *Workshop for Women in Machine Learning (WiML)*. The Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS). <https://openreview.net/forum?id=oUyGUVRFy0>
- ACL Workshop 2023* Gale, R., Salem, A. C., Fergadiotis, G., & Bedrick, S. (2023). Mixed Orthographic/Phonemic Language Modeling: Beyond Orthographically Restricted Transformers (BORT). *8th Workshop on Representation Learning for NLP*. Association for Computational Linguistics. <https://doi.org/10.18653/v1/2023.rep14nlp-1.18>

Journal Articles

- JSLHR 2023* Salem, A. C., Gale, R. C., Fleegle, M., Fergadiotis, G., & Bedrick, S. (2023). Automating intended target identification for paraphasias in discourse using a large language model. *Journal of Speech, Language, and Hearing Research*. https://doi.org/10.1044/2023_JSLHR-23-00121
- Autism Research 2023* MacFarlane, H., Salem, A. C., Bedrick, S., Dolata, J. K., Wiedrick, J., Lawley, G. O., Finestack, L. H., Kover, S. T., Thurman, A. J., Abbeduto, L., & Fombonne, E. (2023). Consistency and reliability of automated language measures across expressive language samples in autism. *Autism Research*. <https://doi.org/10.1002/aur.2897>
- JSLHR 2023* Casilio, M., Fergadiotis, G., Salem, A. C., Gale, R., McKinney-Bock, K., & Bedrick, S. (2023). ParAlg: A paraphasia algorithm for multinomial classification of picture naming errors. *Journal of Speech, Language, and Hearing Research*. https://doi.org/10.1044/2022_JSLHR-22-00255
- JSLHR 2022* Salem, A. C., Gale, R., Casilio, M., Fleegle, M., Fergadiotis, G., & Bedrick, S. (2022). Refining semantic similarity of paraphasias using a contextual language model. *Journal of Speech, Language, and Hearing Research*. https://doi.org/10.1044/2022_JSLHR-22-00277
- JADD 2022* Lawley, G. O., Bedrick, S., MacFarlane, H., Dolata, J. K., Salem, A. C., & Fombonne, E. (2022). “Um” and “Uh” Usage Patterns in Children with Autism: Associations with Measures of Structural and Pragmatic Language Ability. *Journal of Autism and Developmental Disorders*. <https://doi.org/10.1007/s10803-022-05565-4>
- Autism Research 2022* MacFarlane, H., Salem, A. C., Chen, L., Asgari, M., & Fombonne, E. (2022). Combining voice and language features improves automated autism detection. *Autism Research*, 15(7), 1288–1300. <https://doi.org/10.1002/aur.2733>

- Scientific Reports* 2021 Salem, A. C., MacFarlane, H., Adams, J. R., Lawley, G. O., Dolata, J. K., Bedrick, S., & Fombonne, E. (2021). Evaluating atypical language in autism using automated language measures. *Scientific Reports*, 11(1), 10968. <https://doi.org/10.1038/s41598-021-90304-5>
- Frontiers* 2021 Adams, J. R., Salem, A. C., MacFarlane, H., Ingham, R., Bedrick, S. D., Dolata, J. K., Hill, A. P., Fombonne, E., & van Santen, J. (2021). A pseudo-value approach to measuring lexico-semantic similarity in the language of children with or without autism. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2021.668344>
- JADD* 2021 Fombonne, E., MacFarlane, H., & Salem, A. C. (2021). Epidemiological surveys of ASD: Advances and remaining challenges. *Journal of Autism and Developmental Disorders*. <https://doi.org/10.1007/s10803-021-05005-9>

Textbook Chapters

- MacFarlane, H., Salem, A. C., Lawley, G. O., Hill, A. P., Zuckerman, K., & Fombonne, E. (2022). Epidemiology of ASD. In *Textbook for Autism Spectrum Disorders* (2nd ed.). American Psychiatric Association Publishing.
- Fombonne, E., MacFarlane, H., Salem, A. C., & Zuckerman, K. E. (2022). Epidemiological surveys of ASD: Current findings and new directions. In J. L. Matson & P. Sturmey (Eds.), *Handbook of autism and pervasive developmental disorder: Assessment, diagnosis, and treatment* (pp. 135–184). Springer Nature Switzerland AG. https://doi.org/10.1007/978-3-030-88538-0_6

Selected Presentations

Invited Talks

- Salem, A. C., Jagannathan, D., & Levitan, S. I. (2026, April). *Conversations Across Time: Chatting with Ancient Philosophers*. HUMANities x Tech Series, Hunter College. New York, NY.
- Salem, A. C. (2024, April). *Automatically assessing paraphasias in discourse: Breakthroughs and remaining challenges*. Invited talk by Alexandra Salem at La Trobe University Aphasia CRE Seminar Series. Melbourne, Victoria, Australia (Virtual).

Conference Presentations

- Salem, A. C., Gale, R., Fergadiotis, G., & Bedrick, S. (2024, May). *Automating intended paraphasia identification for paraphasias in discourse using a large language model*. Poster presented by Alexandra Salem at: 53rd Clinical Aphasiology Conference, Big Island of Hawai'i, HI.
- Salem, A. C., White, E., Lin, W.-C., Tham, A., Bellsmith, K., Kuo, A., Anderson, J., Summers, A., Reznick, L., & Hribar, M. (2024, May). *Predicting loss and delay to follow-up of amblyopia patients*. Poster by Alexandra Salem at: 2024 Association for Research in Vision and Ophthalmology Annual Meeting, Seattle, WA.
- Salem, A. C., Gale, R., Fleegle, M., Fergadiotis, G., & Bedrick, S. (2023, June). *Automating intended target identification for paraphasias in discourse using a large language model*. Poster presented by Alexandra Salem at: 52nd Clinical Aphasiology Conference, Atlantic City, NJ.
- Salem, A. C., Gale, R., Fergadiotis, G., & Bedrick, S. (2021, October). *Improving Automatic Semantic Similarity Classification of the PNT*. Poster presented by Alexandra Salem at: Academy of Aphasia 59th Annual Meeting, Online.

Adams, J. R., Salem, A. C., Hill, A. P., Bedrick, S., & van Santen, J. (2018). *Semantic similarity of conversational speech between children with and without ASD*. Short Talk by Joel Adams at: 5th Pacific Northwest Regional NLP Workshop: NW-NLP, 2018, Redmond, WA.