Tyler T. Schnoor

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Speech, Language, and Hearing Sciences
1131 E 2nd Street
Tucson Arizona 85721
United States of America

Education

Doctor of Philosophy: Speech, Language, and Hearing Sciences | 2024-Present
University of Arizona
Supervisor: Brad H. Story

Master of Science: Linguistics | 2022-2024
University of Alberta
Supervisors: Benjamin V. Tucker, Jorge Rosés Labrada
Master's Project: *Modeling English Reduced Flaps Using a Simulated Vocal Tract*

Bachelor of Arts Honors: Linguistics | 2018-2022
University of Alberta
Supervisor: Benjamin V. Tucker
Thesis: *Malagasy Speech Synthesis*
First-class Honors

Certifications

Graduate Certificate in College Teaching | In-progress
University of Arizona

Certificate in Natural Language Processing | In-progress
University of Arizona

Certificate in Applied Social Sciences Research | 2022
University of Alberta

Certificate in Fundamentals of Deep Learning | 2021
Nvidia Deep Learning Institute

Conference Publications

Matthew Faytak, Myriam Lapierre, Marina Magalhães, Jorge Rosés Labrada, Ella De Falco, Cadence Lux, Nicholas Kamyu Mori, **Tyler Schnoor**, Lev Michael. (In-Progress). Right-to-left nasal harmony as gradient anticipatory coarticulation. Amazônicas X.

Terblanche, C., Tucker, B.V., **Schnoor, T.**, Harty, M. (2023). Using Tacotron2 to develop synthetic child speech in South African English. In: Radek Skarnitzl & Jan Volín (Eds.), Proceedings of the 20th International Congress of Phonetic Sciences (pp. 3096-3100). Guarant International.

Rosés Labrada, J. E., Faytak, M., **Schnoor, T.**, Lapierre, M., Michael, L. (2023) Piaroa voiceless stops as partial undergoers of nasal harmony. In: Radek Skarnitzl & Jan Volín (Eds.), Proceedings of the 20th International Congress of Phonetic Sciences (pp. 1162-1166). Guarant International.

Emberi, N., **Schnoor, T. T.**, Wright, R. A., & Tucker, B. V. (2022). Acoustic-Based Automatic Speech Intelligibility Scoring Using Deep Neural Networks. Proceedings of Meetings on Acoustics 183ASA (Vol. 50, No. 1, p. 060010)

Schnoor, T. T., Kelley, M. C., & Tucker, B. V. (2021, November). Automatic accentedness rating using deep neural networks. Proceedings of Meetings on Acoustics 181ASA (Vol. 45, No. 1, p. 060013). Acoustical Society of America.

Presentations

Presenting author(s) in bold font

Schnoor, T. T., Story, B. H., Tucker, B. V. (2023). Modeling reduced speech using a simulated vocal tract and overlapping acoustic events. Presented at the 185th Meeting of the Acoustical Society of America (Sydney, Australia)

Schnoor, T. T., McCarthy, A. M. (2023). Expanding research on ʔayʔauθəm interrogative intonation. Presented at the 185th Meeting of the Acoustical Society of America (Sydney, Australia)

Terblanche, C., Schnoor, T. T., Tucker, B. V. (2023). Using Tacotron 2 to develop synthetic child speech in South African English. Presented at the 20th International Congress of Phonetic Sciences (Prague, Czech Republic).

Rosés Labrada, J., **Faytak, M.**, Schnoor, T., Lapierre, M., Michael, L. (2023). Piaroa voiceless stops as partial undergoes of nasal harmony. Presented at the 20th International Congress of Phonetic Sciences (Prague, Czech Republic).

Tucker, B.V., Terblanche, C, Schnoor, T. T. (2023). Using AI to create voices for kids with speech disorders. Invited talk at the SpokenWeb 2023 Institute on Artificial Voices, University of Alberta. (Edmonton, AB).

Schnoor, T. T., & Tucker, B. V. (2022). SpeakerPool: A remote speech data collection platform. Presented at the 183rd Meeting of the Acoustical Society of America (Nashville, TN).

Emberi, N., **Schnoor, T. T.**, Wright, R. A., & Tucker, B. V. (2022). Acoustic-Based Automatic Speech Intelligibility Scoring Using Deep Neural Networks. Presented at the 183rd Meeting of the Acoustical Society of America (Nashville, TN).

Schnoor, T. T., & Menon, A. (2022). Acoustic Predictors of Mean Opinion Scores: A Preliminary Analysis. Presented at the Alberta Conference on Linguistics (Calgary, AB).

Wegewitz, J., Schnoor, T., & Tucker, B. (2022). It's a World of Robots: Speech Synthesis and the Issue of Everyone Having the Same Voice. Education and Research Archive. Presented at 2022 WISEST Celebration of Research.

Schnoor, T. T. (2021). Malagasy Speech Synthesis. Presented at the Festival of Undergraduate Research and Creative Activities (Edmonton, AB).

Schnoor, T. T., **Kelley, M. C.**, Tucker, B. V. (2021). Automated accent rating using deep neural networks. Presented at the 181st Meeting of the Acoustical Society of America (Seattle, WA).

Schnoor, T. T. (2021). Remote Collection of a Malagasy Speech Corpus. Presented at the Alberta Conference on Linguistics (Edmonton, AB).

Honors, Awards, and Fellowships

Department Fellowship   2024
University of Arizona, Speech, Language, and Hearing Sciences Department

Graduate Travel Award   2023
University of Alberta, Faculty of Graduate & Postdoctoral Studies

Canada Graduate Scholarship (Master's)   2022
Social Sciences and Humanities Research Council

Walter H. John's Graduate Fellowship   2022
University of Alberta

Presenter Award for Outstanding Reconciliation Research   2021
Festival of Undergraduate Research and Creative Activities

Roger S. Smith Undergraduate Student Researcher Award   2021
University of Alberta, Faculty of Arts
Project: Remote Collection of a Malagasy Speech Corpus

Jason Lang Scholarship   2018-2021 (Yearly)
Government of Alberta

Laboratory Affiliations and Professional Memberships

Member of the Acoustical Society of America | https://acousticalsociety.org/   2022-Present

Speech Acoustics and Physiology Laboratory | https://sites.arizona.edu/sapl/   2024-Present

Northern Arizona Speech Communication Laboratory | https://nascl.rc.nau.edu/   2023-Present

Alberta Phonetics Laboratory | https://aphl.artsrn.ualberta.ca/   2019-2024

University of Alberta ʔayʔauθəm Laboratory | Website under development   2023-2024

Research-related Employment

Research Assistant to Dr. Jorge Emilio Rosés Labrada   July 2022-Present

Research Assistant to Dr. Benjamin V. Tucker   June 2020-December 2022

Research Assistant to Dr. Kuo-Chan Sun   May 2020

Teaching, Mentorship, and Service Experience

Teaching Assistantships:

SLHS 367 - Phonetics for Clinical Practice	University of Arizona	Spring 2025
SLHS 340 - Language Science	University of Arizona	Fall 2024
LING 101 - Introduction to Linguistics	University of Alberta	Winter 2023
LING 101 - Introduction to Linguistics	University of Alberta	Winter 2022

Guest Lecture - Overview of Vowels — 2024
  SLHS 340 - Language Science

Guest Lecture - Overview of Obstruents — 2022
  LING 512 - Acoustic Phonetics

Mitacs Globalink Research Intern Co-Supervisor — 2022
  Alberta Phonetics Laboratory

Women in Scholarship, Engineering, Science, and Technology Intern Co-Supervisor — 2022
  Alberta Phonetics Laboratory

Secretary of the University of Alberta Linguistics Graduate Association — 2022 - 2023

Guest Lecture - Automatic Accentedness Rating Using Deep Neural Networks — 2021, 22, 23
  LING 320 - Second Language Acquisition

Skills

Technological skills
- General purpose programming (Python, Julia, R)
- Natural language processing (Perl, Prolog)
- Scripting (Praat)
- Web development (HTML, JavaScript, CSS, Flask)
- Document preparation (LaTeX)
- DevOPs (Docker)
- Experiment development (JSPsych)
- Data mining (Scrapy)
- Database management (MySQL, SQLite, SQLAlchemy)
- Machine learning (Keras, Tensorflow, Pytorch)

Experimental and research techniques
- Laboratory speech recording
- Field elicitation and recording
- Forced alignment
- Statistical analysis and modeling
- Online experiment design and programming

Languages
- English (Native)
- Malagasy (Advanced)
- French (Intermediate)
- Mandarin (Beginner)
- ʔayʔauθəm (Some documentation)