

Mikey Elmers

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SUMMARY

Research scientist with years of experience in experimental design, data collection, statistical analyses, coding, and data visualization. Proficient in SQL, R, and Python. Native English speaker skilled in effectively communicating complex insights to stakeholders, both technical and non-technical.

EXPERIENCE

Saarland University

Researcher

Saarbrücken, Germany

2020–Present

- Co-Researcher, *Pause-Internal Phonetic Particles* project (PhD Researcher).
- Conducted research on speech synthesis, specifically focusing on the behavior of phonetic particles within speech pauses.
- Investigated and modeled human pausing structure to generate natural and expressive speech synthesis using Python.
- Evaluated recall effects of speech pauses in speech synthesis with native and non-native listeners.
- Implemented experimental design, collected data, performed statistical analyses, and utilized coding skills for data visualization with R and markdown reports.
- Shared knowledge and findings by writing technical publications with \LaTeX and presenting at conferences.
- Developed materials and taught exercise sections for Speech Science course at the master's level, providing instruction and guidance to students.
- Advocated and implemented reproducible research practices to ensure the integrity and transparency of findings with Git for version control and GitHub for hosting repositories.

GABA

English Instructor

Tokyo, Japan

2018–2020

- Customized lesson plans to meet the unique needs of learners, ranging from complete beginners to business professionals.
- Successfully delivered over 1900 one-on-one lessons, fostering a supportive and engaging learning environment.
- Employed effective communication and interpersonal skills to establish rapport with students and facilitate their language development.

EDUCATION

Saarland University

Ph.D. in Language Science and Technology

Saarbrücken, Germany

2020–Present

- Area of Study: Language Modeling and Speech Synthesis
- Advisor: Bernd Möbius

Waseda University

M.A. in International Culture and Communication Studies

Tokyo, Japan

2018–2020

- Thesis: “Comparing Phonetic Parameters within Comprehensibility: A Perceptual Judgment Study of Japanese-Accented English by different L1 backgrounds”

- Area of Study: Speech Communication and Language Acquisition
- Advisor: Mariko Kondo

University of Minnesota

Minneapolis, USA

B.A. in Linguistics

- Thesis: “A Comprehensive Analysis of Rendaku”
- Advisor: Brian Reese

PUBLICATIONS

- Elmers, M., & Székely, É.** (2023). The impact of pause-internal phonetic particles on recall in synthesized lectures. *accepted: 12th ISCA Speech Synthesis Workshop (SSW)*.
- Elmers, M., O’Mahony, J., & Székely, É.** (2023). Synthesis after a couple PINTs: Investigating the role of pause-internal phonetic particles in speech synthesis and perception. *accepted: Interspeech*.
- Elmers, M.** (2023). Pause particles influencing recollection in lectures. *accepted: Proc. ICPHS*.
- Elmers, M.** (2022). Comparing detection methods for pause-internal particles. In O. Niebuhr, M. S. Lundmark, & H. Weston (Eds.), *Studententexte zur sprachkommunikation: Elektronische sprachsignalverarbeitung 2022* (pp. 204–211). TUDpress, Dresden.
- Elmers, M., Werner, R., Muhlack, B., Möbius, B., & Trouvain, J.** (2021a). Take a Breath: Respiratory Sounds Improve Recollection in Synthetic Speech. *Proc. Interspeech 2021*, 3196–3200.
- Muhlack, B., **Elmers, M.**, Drenhaus, H., Trouvain, J., van Os, M., Werner, R., Ryzhova, M., & Möbius, B. (2021). Revisiting Recall Effects of Filler Particles in German and English. *Proc. Interspeech 2021*, 3979–3983.
- Elmers, M., Werner, R., Muhlack, B., Möbius, B., & Trouvain, J.** (2021b). Evaluating the effect of pauses on number recollection in synthesized speech. *Elektronische Sprachsignalverarbeitung 2021, Tagungsband der 32. Konferenz*, 289–295.

SKILLS

- **Technical Skills:** R, SQL, Python, Git, Praat, L^AT_EX, Microsoft, Linux
- **Research Skills:** Machine Learning, Statistics, Research Methods
- **Certification:** Data Analyst in SQL, DataCamp

LANGUAGES

- **English:** Native
- **Japanese:** Beginner

SCHOLARSHIPS AND AWARDS

- | | |
|---|------|
| • Azusa Ono Memorial Scholarship, Waseda University | 2018 |
| • Foreign Language and Area Studies (FLAS) Scholarship, University of Minnesota | 2017 |