

Tianle Yang

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EDUCATION

Feb 2018 - Dec 2021 Bachelor of Information Technology, Australian National University

RESEARCH INTEREST

Phonetics; Phonology; Tone; Language variation and change; Language acquisition; Machine learning and computer vision; Documentation and analysis of endangered languages

HONORS AND AWARDS

- 2021 Research assistantship (\$1,000), Documenting words and acoustics in Chinese Wu sites
- 2019 Silver medal in Kaggle Prediction Competition
- 2016 Golden medal in National Biology Contest

PUBLICATIONS

Journal Articles

- 2022 [At revision stage] Tianle Yang, Kun Mao. "Emotion-related One-on-one Japanese Online Classroom Study." *International Journal of Educational Research Open*, will be published online ahead of print.

Conference Proceedings

- 2022 Phil Rose & Tianle Yang "Modeling Interaction between Tone and Phonation Type in the Northern Wu Dialect of Jinshan." *The 18th Australasian International Conference on Speech Science and Technology*. December 13th-16th, Canberra, Australia.

Reports and Other Publications

- 2022 Tianle Yang. "Neural networks with different initialization methods for depression detection." <https://doi.org/10.48550/arXiv.2205.04792>
- 2021 Tianle Yang. "Acoustic analysis of Jinshan citation tones in monosyllabic and selected disyllabic words." Final year research report at Australian National University

Manuscripts

- 2022 Tianle Yang. "Perception of Shanghai tones by Shanghai, Cantonese, Mandarin and English speakers." *Finished - under revision (available upon request)*

In preparation

- 2022 Tianle Yang. "Automatic Wu tone identification and categorization." *Draft finished*

CONFERENCE ACTIVITY

Conference Papers Presentation

- 2022 Phil Rose & Tianle Yang “Modeling Interaction between Tone and Phonation Type in the Northern Wu Dialect of Jinshan.” *The 18th Australasian International Conference on Speech Science and Technology*. Canberra, Australia. December 13th–16th.

FINISHED RESEARCH PROJECTS

- 2021 Wu tone map. [Click here to see the results and data](#)
- 2021 Acoustic analysis of Jinshan citation tones “Published online.”
- 2021 Neural Networks for Depression Detection “Published online.”
- 2019 AI Algorithm Engineering funded by Radiological Society of North America (RSNA®) “Develop an algorithm to detect acute intracranial hemorrhage and its subtypes.”

CURRENT PROJECTS

Documentation and analysis of Hainan dialects

Automatic Wu tone identification and categorization based on given vocal onsets and offsets

Automatic tonal acoustics extraction

Between speaker differences in Jinshan vowels

SERVICE

Academic Journal Peer Review

International Journal of Language Education

PROFESSIONAL MEMBERSHIPS

- 2022–present Acoustical Society of America
- 2022–present Linguistics Society of America
- 2022–present International Speech Communication Association
- 2022–present Australasian Speech Science and Technology Association

WORK EXPERIENCE

- 2019–present Japanese & English tutor for Chinese students

PROFESSIONAL DEVELOPMENT

- April – June 2022 Linguistics summer school at Tsinghua university
- Sept 2022 Beyond Speech Workshop 2022 – Macquarie University, Sydney, Australia

RESEARCH SKILLS

Languages

Native Mandarin, Chinese Wu

Fluent English, Japanese

Other Latin (Working knowledge), Min and Hlai (Fieldwork)

Computing

Python, JavaScript, Haskell, SQL, Bash, JAVA