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   [Under peer-review] Tianle Yang. "Perception of Shanghai tones by Shanghai, Cantonese, Mandarin and English speakers." *Finished - available upon request*

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. [PDF preview]

2022   Kun Mao, Tianle Yang. "Emotion-related One-on-one Japanese Online Classroom Study." *The 2022 International Conference on Education, Psychology, Humanities and Historical Research*. December 17th-18th, Chicago, USA. [PDF preview]

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. "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*. December 13th–16th, Canberra, Australia.

2022   Kun Mao, Tianle Yang. "Emotion-related One-on-one Japanese Online Classroom Study." *The 2022 International Conference on Education, Psychology, Humanities and Historical Research*. December 17th-18th, Chicago, USA.

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

More information about these projects can be found [here].

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