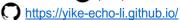
Yike Li

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(858)900-4907



EDUCATION | New York University

M.A. in Experimental Psychology (expected)

Sep 2021 - Present

New York, NY

Emphasis on Cognitive Neuroscience

Advisor: David Poeppel, Ph.D.

Thesis: Spectro-temporal information distinguishes between speech and music

Neuromatch Academy 2022

Emphasis on Computational Neuroscience

Jul 2022

Project: Prediction of semantically differentiated tasks from fMRI using standard GLM and time-

decoding model

Peking University

Beijing, China B.A. in Spanish Language and Literature Sep 2015 - Jul 2019

Minor in Psychology

The Autonomous University of Madrid

Exchange student in Spanish Philology

Madrid, Spain Sep 2017 - Feb 2018

POSITIONS

RESEARCH | Poeppel Lab, New York University

New York, NY

Research Assistant, Advisor: Dr. David Poeppel

Sep 2021 - Present

Thesis Project | Spectro-temporal information distinguishes between speech and music

- Led and performed advanced audio signal processing and big data methods on standard corpora to quantify spectro-temporal structure in speech and music.
- Found that speech and music have distinct modulation patterns while maintaining a high within-category consistency.

Other Experience

- Behavioral experiment, fMRI and MEG scanning, data preprocessing and analysis.
- Speech planning, real-time feedback in speech production.

Language Acquisition & Sound Recognition Lab, UC San Diego

San Diego, CA

Visiting Researcher, Advisor: Dr. Sarah Creel

Aug 2019 - Jun 2020

Independent Study | Pitch consistency in tone versus non-tone language speakers across domain

- Led and conducted behavioral experiments in Mandarin and English native college students to test absolute and relative pitch consistency in linguistic and non-linguistic production.
- Designed and programed Praat-based pipeline to batch-process and quantify pitch trajectories and other phonetic cues.
- Found that tonal language experience may benefit both absolute and relative pitch precision in speech production, while music production showed a weakened but similar pattern.

Other Experience

- Eye-tracked phoneme acquisition experiments on preschoolers (ages 3-5)
- Normed language proficiency tests (PPVT-IV, MINT, GFTA) on both adults and children
- Undergraduate student mentorship (initials of mentored students: Y.D., H.W.)

Cognitive & Computational Neuroscience Lab, New York University

New York, NY

Summer Intern, Advisor: Dr. Biyu J. He

Jul 2018 - Sep 2018

Main Project | EEG study on visual categorization and consciousness

- Collaborated on pilot studies in understanding how consciousness may influence visual categorization on refined and coarse levels.
- Designed and performed an EEG protocol for data collection and analysis.

Other Experience

Inhibiting cortical regions with t-DCS, ICA cleaning of fMRI data.

Attention, Neural Aesthetic & Time Lab, Peking University

Research Assistant, Advisor: Dr. Yan Bao

Beijing, China Jun 2017 - Jun 2019

Independent Study | Relationship between temporal order threshold and McGurk effect

- Led and conducted psychophysics study to explore the hypothetical relationship between multisensory integration and time perception ability.
- Found that the individual difference in time perception ability may account for the sensitivity to the McGurk effect by interacting with the perception and accuracy of auditory input.

PUBLICATIONS

CONFERENCES | Li, Y., Chang, A., & Poeppel, D. (In prep). Spectro-temporal modulation in speech and music.

Chang, A., Li, Y., & Poeppel, D. (In prep). The neural regions for acoustically distinguishing music and speech.

Li, Y., Chang, A., & Poeppel, D. (2022, Oct. 6-8). Spectro-temporal Information Distinguishes between Speech and Music. [Poster presentation]. 14th Annual Meeting of the Society for the Neurobiology of Language, Philadelphia, PA.

Li, Y., Chang, A., & Poeppel, D. (2022, Apr. 29). The Role of Spectro-temporal Information in Speech and Music. [Poster presentation]. 26th Annual NYU Psychology Masters' Research Conference, New York, NY.

Li, Y., & Creel, S.C. (2021, Jul. 28-31). Tone Language Enhances Consistency in Pitch Production Across Domain. [Slide presentation]. 16th International Conference on Music Perception and Cognition, Sheffield, United Kingdom (remote)

AWARDS & **HONORS**

Graduate Student Conference Award (\$500), New York University 2022 Graduate Student Conference Award (\$200), New York University 2022 Master's Research Conference Honorable Mentioned, New York University 2022 National Fellowship for Undergraduate Research (¥10,000), Ministry of Education, China 2018 Santander Scholarship for Distinguished Students (\$4,000), Santander Bank, Spain 2017

SKILLS & **OTHER**

Language: Mandarin (native), English (fluent), Spanish (fluent), Japanese (beginner)

- Programming Skills: MATLAB, Python, Praat, R, JavaScript, HTML/CSS
- Experimental Design: Psychtoolbox, PsychoPy, OpenSesame, jsPsych, Qualtrics
- Data Analysis: Audio Signal Processing (MATLAB), Phonetic Analysis (Praat), Statistics (R, SPSS, G-Power), Machine Learning (Scikit-Learn, Nilearn, PyTorch, TensorFlow), Neural Data Processing (SPM, FieldTrip, MNE)
- Other: Markdown, LaTeX, GitHub

Experimental Skills:

- Neuroscience: MRI/fMRI, MEG, EEG, t-DCS
- Behavioral: Eye-tracking (EyeLink) and behavioral experiments in adults and preschoolers Other: Musical experience (Accordion, Music Theory), video editing (Adobe Premiere, OBS Studio)

SERVICE

OUTREACH & | Thinkingdom Media Group Ltd.

Group Leader, Literary Rights and Data Management Group Junior Researcher, Marketing and Editorial Research Group

Peking University Beijing, China Jun 2016 - Jun 2018

Co-president, Association of Accordion Co-president, Student Union Teaching Assistant, Introduction to Hispanic Culture

Embassy of the Republic of Chile in China

Volunteer Interpreter (Spanish-English-Mandarin), Chile Week 2016

Beijing, China Aug 2016

Beijing, China

Mar 2021 – Aug 2021

Jul 2020 - Feb 2021

Jun 2016 - Jun 2018

Jul 2017 - Aug 2017