

## Lance Ying

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## EDUCATION

Harvard University  
*PhD Candidate in Computer Science*  
Advisor: Krzysztof Gajos, Josh Tenenbaum

August 2022 - Present  
Cambridge, MA

University of Michigan – Ann Arbor  
*Bachelor of Science in Computer Science, Mathematics, Psychology,  
and Cognitive Science*

August 2019 - December 2021  
Ann Arbor, MI

Computer Science Honors Thesis: Accounting for Variations in Speech Emotion Recognition with  
Nonparametric Hierarchical Neural Network

Psychology Honors Thesis: Nation, Culture, and Antecedents of Perceived Organizational Support: A  
Comparison Study between the United States and China

Cognitive Science Honors Thesis: A Bayesian Account of Two-Factor Theory of Emotion Process

## RESEARCH INTERESTS

Human-Computer Interaction (HCI), Probabilistic Inferences, Speech and Natural Language Processing,  
Cognitive Modeling, Machine Learning

## PUBLICATION

**Ying, L.**, Michal, A., & Zhang, J. (2022). A Bayesian Drift-Diffusion Model of Schachter-Singer's Two-Factor Theory of Emotion. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 44, No. 44).

**Ying, L.**, Romana, A., & Mower Provost, E. (2021). Accounting for Variations in Speech Emotion Recognition with Nonparametric Hierarchical Neural Network.  
<https://arxiv.org/abs/2109.04316>

## HONORS, AWARDS & GRANTS

2019, 2020 – LSA Honors Grant (\$500)  
2020 – University Honors  
2020 – Tanner's Memorial Award (\$1,500)  
2020 – Sprayregan Scholarship (\$1,500)  
2020 – University of Michigan OptiMize Fellowship (\$9,000)  
2021 – Angell B. Scholar

## RESEARCH EXPERIENCE

Research Assistant Aug 2020 – Present  
*CHAI Lab, University of Michigan* Ann Arbor, MI

- Conducted independent research supervised by Prof. Emily Mower Provost. Proposed the NHNN (Nonparametric Hierarchical Neural Network) model for speech emotion recognition (SER) tasks as part of the computer science honors thesis.
- Investigated the use of “generic-you” in social media under the supervision of graduate students. Contributed to the “generic-you” classifier using BERT and NLTK.

Research Assistant Oct 2020 – Present  
*Mind, Machine and Mathematics Lab, University of Michigan* Ann Arbor, MI

- Conducted independent research supervised by Prof. Jun Zhang. Reviewed literature on emotion theories and the “misattribution of arousal” paradigm. Simulated a Drift-Diffusion Model (DDM) on the experimental data from the Schachter & Singer study.

Research Assistant Sept 2019 – April 2020  
*Emotion and Self-Control Lab, University of Michigan* Ann Arbor, MI

- Conducted literature review on emotion regulation, culture and ageing. Ran participants for experiments on culture, stress management and emotion regulation.

## PROFESSIONAL EXPERIENCE

Software Engineering intern May 2020 – Aug 2020  
*Tencent* Shenzhen, China

- Used SQL, XGBoost, Word2Vec conduct feature engineering on user browsing data and train advertisement recommendation models to increase Tencent Ads Click-Through Rate (CTR).

Protection Intern Jan 2019 – July 2019  
*UNHCR, the UN Refugee Agency* Beijing, China

- Facilitated the registration procedures and provided counseling services for over 200 applicants seeking asylum from Syria, Yemen, etc.
- Proposed an automated asylum registration system. Secured \$5000 funding and used Python to develop the front-end and back-end system.

Founder March 2017 – May 2020  
*Tide Initiative* San Francisco, CA

- Founded Tide Initiative, a California 501(c)(3) nonprofit to promote social emotional learning in the U.S, Korea, and China. Partnered with schools and nonprofits to influence over 5 thousand students through workshops.