

Tianhu (Tony) Chen

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[chentau.github.io](https://github.com/chentau)

Education

2016 - 2020

Boston College

Psychology B.A, Mathematics B.A, Computer Science (minor)

Advisor: Joshua K. Hartshorne

Undergraduate Thesis: Verb Argument Structure and Semantics in Language Models.

Experience

2020-present

Social and Cognitive Computational Neuroscience Lab

PI: Stefano Anzellotti

- Analyses of neural network representations of face identity and expression

2020-present

Morality Lab

PI: Liane Young

- Bayesian and reinforcement learning modeling of belief updating
- Computational modeling of differential effects of actions versus words on social learning

2017-2020

Language Learning Lab

PI: Joshua Hartshorne

- Computational modeling of second language acquisition
- Linguistic analyses of large transformer-based language models

2019

Laboratory for Neural Computation and Cognition

PI: Michael Frank

- Neural network based inference algorithms for sequential sampling models.

2018-2019

Momeni Lab

PI: Babak Momeni

- Convolutional neural networks for predicting species coexistence in microbial communities.

Publications

* denotes joint authorship

2021

- 2021 **Chen, Tony**, Hartshorne, Joshua. K. (2021). More evidence from over 1.1 million subjects that the critical period for syntax closes in late adolescence. *Cognition*.
- Fengler, Alexander, Govindarajan, Lakshmi N., **Chen, Tony**, Frank, Michael J. (2021). Likelihood Approximation Networks (LANs) for Fast Inference of Simulation Models in Cognitive Neuroscience. *eLife*.

Conference Abstracts

Talks

- 2021 Kim, Minjae*, **Chen, Tony***, Anzellotti, Stefano, and Young, Liane L. Situational Attributions and Asymmetries in Social Learning. The 2022 Annual Convention of the Society of Personality and Social Psychology.
- 2021 **Chen, Tianhu**, O'Donnell, Timothy J., and Hartshorne, Joshua. Verb Argument Structure and Semantics in Language Models. The 12th Dubrovnik Conference on Cognitive Science.
- 2019 **Chen, Tianhu**, and Hartshorne, Joshua. Revisiting a Critical Period for Syntax in a Second Language: New Analyses Provide the Same Results. The 32nd CUNY Conference on Human Sentence Processing.

Posters

- 2021 **Chen, Tony**, Kim, Minjae, Anzellotti, Stefano, and Young, Liane. Situational Attributions in Belief Updating. The 2022 Annual Convention of the Society for Personality and Social Psychology.
- 2019 **Chen, Tianhu**, and Hartshorne, Joshua. More Evidence that the Critical Period for Syntax Ends at 17. The 44th Boston University Conference on Language Development.

Teaching

- 2019 Teaching Assistant, Psychoactive Drugs, Brown University

Membership

Member, Psi Chi
Member, Phi Beta Kappa

Technical Skills

Programming Languages: Python, R, Julia, SQL, Javascript, C
Frameworks: Pytorch, Jax, Stan, Numpy/Scipy/Pandas