

Jean Luo

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EDUCATION

University of Southern California, Los Angeles, CA *2021-2026 (expected)*
PhD student in Social Psychology; Advisor: Leor Hackel

Princeton University, Princeton, NJ *2017- 2021*
Bachelor of Arts in Neuroscience with Applications of Computing certificate
Cumulative GPA: 3.87 (High Honors)

Columbus School for Girls, Columbus, OH *2013-2017*
GPA: 3.99/4.00; SAT: 2320; Salutatorian of graduating class

RESEARCH EXPERIENCE

Thesis Student *Jan 2020 – May 2021*

Advised by Susan Fiske, Department of Psychology, Princeton University

- Proposed and ran online behavioral study to test the effects of stereotype-holder power and group membership on self-presentation and self-concept
- Investigated the role of social reward in motivating the confirmation and internalization of interpersonal expectations in Senior Thesis
- Proposed and ran two studies to test the role of verbal reinforcement and leading questions in behavioral confirmation
- Wrote and submitted IRB materials, created surveys in Qualtrics, recruited participants through Prolific, and analyzed data in Excel, R and Python
- Built Bayesian agent-based model to observe the conditions necessary for stereotype formation and maintenance in a population over time
- Presented work at virtual Princeton Research Day 2021 as well as for Oral Examination and multiple lab meetings

Student Researcher *May 2020 – Jan 2021*

Computational Cognitive Science Lab, PI: Tom Griffiths, Department of Psychology, Princeton University

- Investigated the effect of reward loss on cognitive effort avoidance, measured by the tendency to avoid doing mental math to determine values of options
- Conducted literature search, designed experimental paradigms and developed all study materials
- Set up front-end (using HTML, Javascript, and CSS) and back-end (using Node.js and Mongo) for multiple versions of a web-based sequential-choice task
- Recruited participants through Prolific and conducted analyses on decisions and reaction times of participants in Python

Research Assistant *May 2018 – Dec 2019*

Hasson Lab, PI: Uri Hasson, Princeton Neuroscience Institute, Princeton University

- Contributed to research towards mapping out representation of words in the brain
- Created and refined pre-processing pipeline to align ECoG data with audio recordings of speech
- Analyzed data using MATLAB and investigated predictability of brain waves during comprehension versus production of speech with a predictability measure called Active Information Storage (AIS)
- Implemented supervised machine learning methods in Python to examine performance of models in predicting ECoG brain waves during production versus comprehension of speech

Summer Research Intern

Jun – Aug 2019

Couzin Lab, PI: Iain Couzin, Max Planck Institute of Animal Behavior Department of Collective Behavior, University of Konstanz

- Investigated group dynamics of zebras in Kenya using drone footage
- Conducted literature search on and implemented image segmentation and optimization algorithm, wrote code to merge parts of image similar in texture and color, and used machine learning techniques (including training a U-net model) to automatically detect animal trails in landscape maps
- Shortened data processing pipeline by saving time on human annotations of landscape maps
- Collaborated closely with graduate students and postdocs and gave presentation at end of internship to summarize work

SCHOLARSHIPS AND AWARDS

Princeton University Summer, Fall, and Spring Thesis Funding (\$4360 in total)

2020-2021

Princeton International Internship Program Fellowship (\$2000 stipend, housing, flight)

2019

SKILLS

Programming: MATLAB, Java, Python, R, HTML/CSS/Javascript (JsPsych)

Psychology research: Qualtrics, Prolific

Languages: Mandarin Chinese, beginner-level German