

Hannah Story Steinberg

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Education

Arizona State University, PhD in Quantitative Psychology 2025 - 2030 (expected)

- unweighted GPA: 4.0, weighted GPA: 4.21

University of California, Los Angeles 2021 - 2025

- B.S. Statistics & Data Science
- B.S. Cognitive Science with Specialization in Computing
- GPA: 3.96, *cum laude*
- Dean's Honors; Departmental Honors, Psychology

Research Experience

Research Project, Quantitative Psychology August 2025 – Present

- Ongoing project on the effects of fixed reliability estimates in bayesian single indicator models
- Mentored by Professor Roy Levy, ASU

Honors Thesis, Psycholinguistics August 2024 – Present

- Ongoing study and evaluation of results in noisy channel processing
- Mentored by Professor Idan Blank, UCLA

Independent Project, Quantitative Psychology September 2024 - June 2025

- Analysis and simulation of multilevel models
- Mentored by Professor Amanda Montoya, UCLA

Research Assistant, Amanda Montoya Quantitative Methods Research Collaboratory (QRClab) September 2024 - June 2025

- Facilitated stratified sampling for authors of Registered Reports
- Classified research reports with a two condition pre-post multiverse design

Research Assistant, Idan Blank Language Lab September 2023 - June 2024

- Generated a unique set of tightly controlled stimuli for a research project on cognitive control

Presentations

Noisy Channel Processing: How We Rationally Decode Handwriting

- Presented a poster at the Western Psychological Association Conference hosted in Tacoma, WA (*planned*)
- Presented a talk at the Annual Conference on Human Sentence Processing hosted at MIT in Boston, MA (*planned*)
- Presented a talk at the ASU Annual Graduate Linguistics Symposium in Tempe, AZ
- Presented a talk at the UCLA Psychology Undergraduate Research Conference in Los Angeles, CA
- Presented a talk at the UCLA Undergraduate Research & Creativity Showcase in Los Angeles, CA
- Presented a poster at the UCLA Psi Chi Research Conference in Los Angeles, CA
- Presented a talk at the Psych 191CH Departmental Honors Research Seminar in Los Angeles, CA
- Presented a talk at the Psych 296A Research Topics in Psychology Course in Los Angeles, CA

Publications

Noisy Channel Processing: How We Rationally Decode Handwriting

Hannah Steinberg, Idan Blank, Amanda Montoya
(*in preparation*)

Coursework

Graduate

- Psychometric Methods
- Methods of Analysis of Variance
- Bayesian Data Analysis (IP)
- Multiple Regression (IP)

Undergraduate

- Monte Carlo Methods
- Statistical Models and Data Mining
- Psychological Experimental Design
- Mathematical Statistics
- Computation and Optimization with R
- Linear Models
- Statistical Consulting
- Introduction to Probability

Skills

Research Techniques

- Bayesian data analysis methods using blavaan and rstan
- Factor Analysis using lavaan and IRT analysis using flexMIRT
- Research project design & time management of research goals
- Creation of online experiments using PCIBEX
- Creating and debugging algorithms
- Creation of complex and tightly controlled linguistic stimuli

Coding Proficiency

- R, SPSS, flexMIRT, Matlab, Overleaf, Tableau

Computer Proficiency

- Word, Excel, PowerPoint, and online collaboration platforms

Teaching

PSY 290: TA for Research Methods

January 2026 - May 2026

- Creating and teaching academic materials on psychological research design
- Topics include formatting of APA research papers and ethics of genAI

PSY 230: TA for Psychological Statistics

August 2025 - Dec 2025

- Guest lecture on independent t-tests and pooled variance
- Hosted weekly office hours, proctored exams, and graded assignments and exams

UCLA Math Circle

July 2023 - June 2025

- Lead instructor for weekly community math enrichment program for K-12 students

Phil 31: TA for Symbolic Logic

July 2023 - June 2025

- Tutored students in class materials, proctored exams, supervised office hours

Awards

University Graduate Fellowship; ASU Graduate Department of Psychology

Timothy Chheang Memorial Scholarship Award for Best Talk; Psychology 191CH at UCLA

Golden Key International Honor Society at UCLA

Alpha Lambda Delta National Honor Society at UCLA

Scholastic Art & Writing Awards: Gold Key, Sculpture

Jane Street Mystery Planet Puzzle Hunt, First Place

Misc

Secretary for the ASU Board Game Club (2025-present)

Ranked top 25 in California and Nevada in indoor Rock Climbing (2017-2024)

Tutored college students in calculus (2020-2022)