

# Hannah Story Steinberg

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## Education

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- 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

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- 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

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- Steinberg, H., Levy, R.** (2026, May). *Acknowledging Uncertainty in Reliability when Fitting Regression Models* [Poster presentation]. Modern Modeling Methods Conference, Manhattan, NY. (*planned*)
- Steinberg, H., Montoya, A., & Blank, I.** (2026, May). *Noisy channel processing: How we rationally decode handwriting* [Poster presentation]. Western Psychological Association Conference, Tacoma, WA. (*planned*)
- Steinberg, H., Montoya, A., & Blank, I.** (2026, March). *Noisy channel processing: How we rationally decode handwriting* [Talk]. Annual Conference on Human Sentence Processing, MIT, Boston, MA.
- Steinberg, H., Montoya, A., & Blank, I.** (2026, February). *Noisy channel processing: How we rationally decode handwriting* [Talk]. ASU Annual Graduate Linguistics Symposium, Tempe, AZ.
- Steinberg, H., Montoya, A., & Blank, I.** (2025, May). *Noisy channel processing: How we rationally decode handwriting* [Talk]. UCLA Psychology Undergraduate Research Conference, Los Angeles, CA.
- Steinberg, H., Montoya, A., & Blank, I.** (2025, May). *Noisy channel processing: How we rationally decode handwriting* [Talk]. UCLA Undergraduate Research & Creativity Showcase, Los Angeles, CA.
- Steinberg, H., Montoya, A., & Blank, I.** (2025, May). *Noisy channel processing: How we rationally decode handwriting* [Poster presentation]. UCLA Psi Chi Research Conference, Los Angeles, CA.
- Steinberg, H., Montoya, A., & Blank, I.** (2025, May). *Noisy channel processing: How we rationally decode handwriting* [Talk]. Psych 191CH Departmental Honors Research Seminar, Los Angeles, CA.

**Steinberg, H., Montoya, A., & Blank, I.** (2025, May). *Noisy channel processing: How we rationally decode handwriting* [Talk]. Psych 296A Research Topics in Psychology Course, Los Angeles, CA.

## **Publications**

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### **Acknowledging Uncertainty in Reliability when Fitting Regression Models**

Hannah Steinberg, Roy Levy

(in preparation)

### **Noisy Channel Processing: How We Rationally Decode Handwriting**

Hannah Steinberg, Amanda Montoya, Idan Blank

(in preparation)

## **Workshops**

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**Bayesian Longitudinal Data Analysis Training (2026, August; *planned*)**

**Modern Modeling Methods Conference 2026 Preconference Workshop:**

**Bayesian modeling and inference with Stan (2026, June; *planned*)**

## **Coursework**

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### **Graduate**

- Psychometric Methods
- Methods of Analysis of Variance
- Bayesian Data Analysis (IP)
- Multiple Regression (IP)
- Structural Equation Modeling (IP)
- Longitudinal Growth Modeling (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**

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### **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

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### 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

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Graduate College 2025-26 (Q4) Travel Award; ASU Graduate College

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

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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)