Keane A. **Hauck**

Doctoral Student · Quantitative Methods

Arizona State University

khauck12@asu.edu | www.keanehauck.com | keanehauck | keane-hauck

Education

Ph.D. in Psychology | Quantitative Research Methods — *Expected 2030*

Arizona State University — *Tempe, AZ*

Advisor: Dr. Kevin Grimm

M.A. in Psychology | Quantitative Research Methods — *Expected 2027*

Arizona State University — *Tempe, AZ*

Advisor: Dr. Kevin Grimm

B.S. with Highest Honors in Psychology — *2024*

University of Oklahoma — *Norman, OK*

Summa Cum Laude. Minors in Computer Science and Music, Certificate in Applied Statistics

Publications

Grimley, L. E. & **Hauck, K. A.** (in press). *Formal correctness of an algorithm for triangular peg solitaire in multiple colors* — *in press*

Grimm, K.J., Cleaver, M., **Hauck, K.**, Houpt, R., Johnson, S. (2026). A first-difference approach to studying sequential associations with longitudinal panel data. *Front. Organ. Psychol. 4:1864865.* doi: 10.3389/forgp.2026.1864865 — *2026*

Grimm, K., Houpt, R., Cleaver, M., Johnson, S., **Hauck, K. A.**, Infurna, F. J., Campbell, I.G. (2026). Blending Substantive & Methodological Expertise into Statistical Models: Longitudinal Model Development. *British Journal of Mathematical and Statistical Psychology, 00, 1–20.* https://doi.org/10.1111/bmsp.70051 — *2026*

Cavazos, J. T., **Hauck, K. A.**, Baskin, H. M., Bain, C. M. (2024). ChatGPT Goes To College: Understanding Students' Usage and Perceptions of Artificial Intelligence in the Classroom. *Teaching of Psychology, 0*(0). https://doi.org/10.1177/00986283241268829 — *2024*

Cavazos, J. T. & **Hauck, K. A.** (2024). Student ethics and ChatGPT: What college instructors need to know. *American Psychological Association*. https://www.apa.org/ed/precollege/psychology-teacher-network/introductory-psychology/chatgpt-ethics — *2024*

Manuscripts In Progress

Baskin, H. M., Cavazos, J.T., **Hauck, K. A.,** Mashigian, T.M. *Beyond Aphantasia and Hyperphantasia: A Latent Profile Analysis of the Full Visual Imagery Spectrum* — *in prep*

Talks and Presentations

Research Presentations

Hauck, K. (2026). *A First Difference Approach to Study Sequential Associations with Longitudinal Panel Data.* Talk given at the Arizona State University Quantitative Methods Speaker Series. — *April 2026*

Hauck, K., Cavazos, J., Baskin, H., Bain, C. (2024). *ChatGPT Goes To College: Exploring Student Perspectives on Artificial Intelligence in the Classroom.* 42nd Annual Research Conference of the Oklahoma Psychological Society, University of Central Oklahoma, Edmond, OK. *April 2024*

Best Undergraduate Paper

Hauck, K., Cavazos, J., Baskin, H., Bain, C. (2024). *ChatGPT Goes To College: Exploring Student Perspectives on Artificial Intelligence in the Classroom.* 36th Annual Undergraduate Research Day, University of Oklahoma, Norman, OK. *April 2024*

First-Place Award in Psychology and Personality

Guest Lectures

Hauck, K. (2025). *Statistical Inference for Mean Differences.* Guest lecture delivered in the undergraduate-level course Intro Stats taught by Dr. Elizabeth Nelson at Arizona State University. *April 2024*

Posters

Hauck, K., Grimm, K. J., Cleaver, M. A., Houpt, R. P. (2026). *A First Difference Approach to Study Sequential Associations with Longitudinal Panel Data.* 11th Modern Modeling Methods Conference, New York City, NY. *June 2026*

Dominguez, I.J., Adesuyi, T.A, Povec, H.T., Novelli, R.G., Rice, J.D., Day, E.A., **Hauck, K.**, Hardy III, J.H. (2026). *Development and Initial Validation of "Deeper Paths:" A Lab-based Computer Game for Studying Active Learning (Exploration-Exploitation Behaviors)* The 44th Annual Research Conference of the Oklahoma Psychological Society, Norman, OK. *April 2026*

Dominguez, I.J., Adesuyi, T.A, Povec, H.T., Novelli, R.G., Rice, J.D., Day, E.A., **Hauck, K.**, Hardy III, J.H. (2026). *Development and Initial Validation of "Deeper Paths:" A Lab-based Computer Game for Studying Active Learning (Exploration-Exploitation Behaviors)* 14th Annual Graduate and Undergraduate Research Conference, Norman, OK. *April 2026*

Hauck, K., Grimm, K. J., Cleaver, M. A., Houpt, R. P. (2026). *A First Difference Approach to Study Sequential Associations with Longitudinal Panel Data.* Dave MacKinnon Festschrift, Tempe, AZ. *March 2026*

Hauck, K., Bain, C. M., Baskin, H. M., Swan, F., Cavazos, J. (2025). *The Quantitative Edge: How Quantitative Psychology Programs Shape Statistical Expertise in Graduate Programs.* Midwestern Psychological Association Annual Conference, Chicago, IL. *April 2025*

Bain, C. M., Baskin, H. M., **Hauck, K.**, Swan, F., Cavazos, J. (2024). *Statistical Savvy: Exploring the Impact of Quantitative Psychology Programs on Dissertation Methodology in Psychology.* Annual Conference on Teaching, Louisville, KY. *October 2024*

Hauck, K. (2024). *AI Use in Academic Work: Student Attitudes and Behaviors.* Southwestern Psychological Association Annual Conference, San Antonio, TX. *March 2024*

Research Appointments

Graduate Researcher advised by Dr. Kevin Grimm *August 2025 - Present*

Arizona State University *Tempe, AZ*

Honors Research Assistant to Dr. Jenel Cavazos in Social Psychology *August 2024 - August 2025*

University of Oklahoma *Norman, OK*

Research Software Development Lead, supervised by Dr. Eric Day, IO Psychology *August 2024 - August 2025*

University of Oklahoma *Norman, OK*

Undergraduate Research Assistant to Dr. Lauren Grimley in Mathematics *January 2024 - August 2025*
University of Oklahoma *Norman, OK*

Academic Success Center Research Team Member, led by Dr. Robert Terry, Quantitative Psychology *October 2023 - August 2025*
University of Oklahoma *Norman, OK*

Undergraduate Honors Researcher, supervised by Dr. Jenel Cavazos, Social Psychology *August 2023 - May 2024*
University of Oklahoma *Norman, OK*

Undergraduate Research Assistant to Dr. Edward Cokely in Cognitive Psychology *January 2023 - May 2023*
University of Oklahoma *Norman, OK*

Undergraduate Research Assistant to Dr. Scott Gronlund in Cognitive Psychology *August 2022 - December 2022*
University of Oklahoma *Norman, OK*

Teaching Appointments

Graduate Teaching Assistant *Fall 2026*
Arizona State University *Tempe, AZ*
PSY 290: Research Methods

Graduate Teaching Assistant *Spring 2026*
Arizona State University *Tempe, AZ*
PSY 330: Statistical Methods

Graduate Teaching Assistant *Fall 2025*
Arizona State University *Tempe, AZ*
PSY 230: Introduction to Statistics

Peer Educator at the Office of Advocacy and Education *Summer 2024 - Summer 2025*
University of Oklahoma *Norman, OK*
Provided state-mandated trainings to incoming students

Undergraduate Teaching Assistant *Fall 2024*
University of Oklahoma *Norman, OK*
PSY 3003: Advanced Undergrad Statistics

Undergraduate Quantitative Methodology Advisor *Summer 2024*
University of Oklahoma *Wichita, KS*
Consulted with Dr. Quan Phan in Higher Education Administration

Undergraduate Teaching Assistant *Spring 2022*
University of Oklahoma *Norman, OK*
PSY 1113: Elements of Psychology

Peer Teaching Assistant *Fall 2021*
University of Oklahoma *Norman, OK*
UCOL 1002: First Year Foundations of Psychology

Peer Educator at the Gender + Equality Center *Fall 2021 - Summer 2024*
University of Oklahoma *Norman, OK*

Grants, Fellowships, and Awards

Research Grants

2023 **Undergraduate Honors Thesis Grant**, University of Oklahoma

Conference Travel Grants

2026 **Graduate Student Travel Grant**, ASU Graduate Student Association
2024 **Conference Travel Grant**, OU Honors College
2024 **Individual Travel Grant**, OU Honors College

Awards

2025 **Research Excellence Award**, Arizona State University
2024 **Graduating Senior Spotlight**, OU Honors College
2024 **Best Undergraduate Paper**, Oklahoma Psychological Society
2024 **First-Place Presentation in Psychology and Personality**, Undergraduate Research Day at the University of Oklahoma
2022 **Peer Educator of the Year**, University of Oklahoma Gender + Equality Center
2023-2024 **President's Honor Roll**, Dodge Family College of Arts and Sciences
2021-2022 **Dean's Honor Roll**, Dodge Family College of Arts and Sciences

Scholarships and Fellowships

2021 **Jack & Sara Freeman Scholarship**, Sigma Alpha Mu
2021 **Guller Young Scholar**, Sigma Alpha Mu
2020-2024 **National Merit Finalist Scholarship**, University of Oklahoma

Research Interests

Longitudinal Data Analysis
Differential Item Functioning
Missing Data Analysis
Psychometrics
Machine Learning
Item Response Theory

Skills

Statistics R, SAS, Python, SPSS, Mplus
IDE Experience RStudio, VSCode, Eclipse, Visual Studio, BlueJ
Other Programming Languages Java, C++, HTML, JavaScript, Git, Bash, LaTeX
Microsoft Office Excel, Word, PowerPoint
Tools Qualtrics, Zotero, Overleaf, ResearchRabbit