Pittsburgh, PA 15208 | 407-797-4616 | kolenorberg@gmail.com

KOLE NORBERG, PH.D.

SKILLS

- R
- Python
- SQL
- (Hierarchical) Linear & Logistic Regression
- Random Forest

- Bayesian Inference
- Data Visualization
- GitHub
- Qualtrics
- Eye Link (eye tracking software)

WORK HISTORY

LEARNING ENGINEER 03/2023 to present

- Working with large language models to improve readability and personalization of math content for MATHia software (work published at AIED workshop)
- Part of team developing and testing an interface to provide real time student information to tutors

COGNITIVE SCIENCE CONSULTANT 01/2023 to present
Freelance, Pittsburgh, PA

- Utilized **decision support techniques and VBA to automate** compliance and enrollment forecasting for a Ducklings Early Learning Center

POSTDOCTORAL RESEARCHER 03/2022 to 12/2022
Resilient Cognitive Solutions, Pittsburgh, PA

- Developed a communications model to highlight risks factors for miscommunication
- **Led a cross-functional team** in developing a video game for experimental research
- Wrote a **cross-disciplinary literature review** synthesizing psychology and computer science theory
- Recommended human-machine communication innovations to the Air Force Research Laboratory

GRADUATE STUDENT RESEARCHER 08/2017 to 05/2022
University of Pittsburgh, Pittsburgh, PA

- Led 7+ projects through the entire research cycle: theory, design, execution, data cleaning, analytics, inference, and write-up
- **Implemented a random forest** for high variable, low observation evaluation of data extracted from user internet browsing logs (Awarded Outstanding Student Paper)
- Developed **data processing pipelines in Python**
- Generated annotation guidelines for identifying syntactic aspects of user generated text ahead of **training a machine learning classifier**
- Assisted teaching graduate statistics courses, including guest lectures on Bayesian inference, R, and data visualization
- 2 peer-reviewed journals (3 under review), 6 peer-reviewed conference talks, 19 other talks

READING AND WRITING INSTRUCTOR 01/2013 to 08/2017
City University Of New York, New York, NY

- Taught for CUNY Start, an intensive program for students with specific learning needs
- **Utilized VBA to fully automate** a scalable attendance tracker for a program with over 300 students, reducing labor from 8 hours to 5 minutes.
- **Created a relational database** from scratch to track student recruitment and enrollment

WEB DEVELOPER 10/2010 to 08/2017
Freelance, New York, NY

- Created database driven media and e-commerce sites using HTML, CSS, PHP, SQL, and jQuery

EDUCATION

University of Pittsburgh, Pittsburgh, PA
Ph.D., Cognitive Psychology
Minor in Quantitative Methods
Certificate in Neuroscience from Center for the Neural Basis of Human Behavior
Ruth Myers Research Excellence Award for Dissertation

University of Pittsburgh, Pittsburgh, PA
Master of Science**,** Cognitive Psychology

Florida Atlantic University, Boca Raton, FL
Master of Fine Arts**,** Creative Writing

Indiana University**,** Bloomington, IN
Bachelor of Arts**,** Psychology

WEBSITES

- www.kolenorberg.com
- www.github.com/kan106
- www.linkedin.com/in/kole-norberg/

CERTIFICATIONS

- Certified Data Analyst, [Datacamp] - [11/24/2022-11/24/2024]
- Certified Data Professional, [Datacamp] – [1/24/2023-1/23/2024]