# Graham Alexander Noblit, Ph.D.

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Adaptable & curious Senior Data Scientist (6+ years exp.) with expertise in statistics, machine learning, and artificial intelligence. Excels in mentorship & leadership roles and at designing & managing collaborative and solo projects.

## SKILLS

**Engineering:** Python, R, Julia, SQL, Linux, Git, Docker

**Domain:** Machine Learning; Artificial Intelligence; Generative AI, Transformers, and Large Language Models; Econometrics and Statistical Inference (Regression, Bayesian); Causal Inference and Experimental Design (A/B Testing); Natural Language Processing (NLP); Optimization; Data Visualization

## PROFESSIONAL EXPERIENCE

**Children's Hospital: Los Angeles** — Los Angeles, CA
Senior Data Scientist, Team Lead — September 2023 – Present

- Implement machine learning and statistical pipelines for clinical research and practice
- Supervise team of data scientists: determining team's project involvement and defining project objectives and plans of completion; develop team's skills by providing tutorials on recent advances in machine learning and AI
- Improve clinical note classification by 35%, designing large language model/GenAI pipelines using information extraction, self-supervised training, semantic-search using vector databases, & chain-of-thought fine-tuning
- Achieve a 10% reduction in experiment costs by implementing machine learning & Bayesian methods to salvage datasets
- Deliver recommendations on large language models/generative AI to audience of over 100 of administrators, researchers, and clinicians; talk received highest rating in history of speaker series
- Audit genomics analysis pipeline, correcting errors and redefining future project-scope & data-collection

**Schwartz Reisman Inst. for Technology & Society; Vector Inst. for Artificial Intelligence** — Toronto, ON
Research Scientist — September 2022 – September 2023

- Designed game-theoretic optimization models & simulations for cooperative multi-agent reinforcement learning
- Provided econometric and statistical consultation for data-collection for study of opinion expression
- Led weekly meetings of 15 people, planning and developing themes and speakers for multi-disciplinary artificial intelligence conference (100+ attendees); mentored a Ph.D. student

**Independent Research Consultant** — August 2019 – September 2023

- **DeepMind** (AI): Provided disciplinary expertise, co-designing novel reinforcement learning algorithm
- **University of Chicago School of Business**: Scraped and created datasets; performed statistical analyses (mixed models regression and spatial regressions) included in scientific publications
- **Rare** (global nonprofit): Devised research and data collection procedures for project on fishery sustainability and behavioral change in the Brazilian Amazon

**Harvard University** — Cambridge, MA
Doctoral Researcher — August 2016 – May 2022

- Produced three scientific articles explaining human cultural, behavioral, and economic outcomes using spatial regression, causal inference, linear and non-linear dimensionality reduction, and game-theoretic optimization
- Scraped, cleaned, and merged four spatial and non-spatial, large and small, datasets using climatic, agricultural, economic, and survey data

Teaching Fellow — August 2018 – July 2021

- **Statistics,** Head Teaching Fellow: supervised teams of 5-9 teaching assistants and led classes of 20+
- Taught data-science & R: hypothesis testing, model selection, and interpreting & presenting results

## EDUCATION

**Harvard University,** Ph.D. in Human Evolutionary Biology, Cambridge, MA — May 2022
**University of Texas at Austin**, B.A. in Anthropology, Minor in Mathematics, Austin, TX — May 2012