

PROFESSIONAL SUMMARY

Data scientist with expertise in human behavior, a decade of experience translating abstract questions into testable hypotheses, and a talent for distilling data into the story that generated it. Highly proficient in R (tidyverse, markdown, etc) and SQL for queries, visualization, and analysis, and always expanding my toolkit of methods and softwares. Experienced project manager, equally fluent working with engineers, designers, executives, and other stakeholders.

SKILLS PROFILE

Research Methods: comprehensive knowledge of survey & experiment design (100s of studies, 25K+ human subjects), including pre-post interventions, factorial designs, 1:1 interviews, cross-cultural & multi-lingual localization

Project Management: a decade managing teams of 3-16 junior researchers & senior stakeholders across 3-5 simultaneous projects to ensure data quality, reproducible workflows, and timely reporting of actionable insights

Softwares: R (expert: visualization, statistics, queries, markdown), SQL, Qualtrics, mTurk, Excel, Salesforce CRM

Quantitative Analysis: proven expertise in model fitting & A/B testing (*regressions, prediction, model comparison*), data simulation (*power analyses, parameter analyses*), text analysis; experience with computational & agent-based models

Languages: Russian (official certification at C1+/ТРКИ-3/ full professional proficiency)

EXPERIENCE

Sr. Research Scientist, The University of Michigan, Ann Arbor, MI

2023-2024

- **Simultaneously manage 4 longitudinal surveys of public health attitudes**

- o Designed & managed surveys of >1K participants, liaising with stakeholders to specify research objectives
- o Created automated workflows in R to extract relational data from multiple sources, clean, and generate decision-critical visualizations & analyses (tidyverse, janitor, markdown, ggplot2, modelbased)
- o Led team of 16 junior researchers in primary data collection

Research Scientist, Yale University, New Haven, CT

2017-2023

- **Developed & led novel research program on belief diffusion in social networks**

- o Designed & conducted mixed-methods surveys, interventions, & 1:1 interviews (100+ studies, >15K participants) quantifying the effects of testimony and evidence on beliefs about technology, viruses, and social policies
- o Used diverse statistical modeling & analysis techniques to analyze model & human subject data, resulting in 8 peer-reviewed publications and 7 invited talks at conferences & research institutes (e.g., Max Planck Institute)

- **Simultaneously with research, stepped up to take on project manager role within lab**

- o Created online ad campaigns that increased size of participant database by >300% from 2018 to 2021
- o Managed conduct of 900+ participant interviews per year from 2018 to 2021

Jr. Research Scientist, The University of Chicago & Booth School of Business, Chicago, IL

2015-2017

- Conducted literature reviews, collected data, and wrote technical reports to support dozens of studies (n>10K participants) on diverse topics in financial decision-making, physiological stress responses, and eyewitness memory across 3 countries and 4 languages

Teacher, Smart School of Foreign Languages, Ulyanovsk, Russia

2012-2015

Teacher Trainer (RPCV), United States Peace Corps, Karaganda, Kazakhstan

2011-2012

- Led teaching methods workshops for local teachers, taught English courses to 7 biweekly groups (ages 10-65)
- Planned and executed nine multi-week language immersion camps, each enrolling 200+ students, managing international team of counselors from 12 countries speaking 6 languages

EDUCATION

PhD, Cognitive & Behavioral Sciences, Yale University, New Haven, CT

2023

MA, Social Sciences, The University of Chicago, Chicago, IL

2016

BA, Philosophy & History of Science, St. John's College, Santa Fe, NM

2009

SELECTED PUBLICATIONS

- **Richardson, E.**, Davis, I., & Keil, F. (in prep). Agenda-setting and The Emperor's New Clothes: People infer that letting powerful agents make their opinion known early can trigger information cascades and pluralistic ignorance. *Proceedings of the Cognitive Science Society*. <https://escholarship.org/content/qt31k4r1vh/qt31k4r1vh.pdf>
- **Richardson, E.**, Hok, H., Shaw, A., & Keil, F. (in revision). Herding cats: children and adults infer collective decision speed from team size and diversity, but disagree about whether consensus strength matters more than size. *Cognition*. <https://escholarship.org/content/qt7sj3b4bv/qt7sj3b4bv.pdf>
- **Richardson, E.**, & Keil, F.C., (under review). Anger, evidence, & trending opinions: we trust consensus when we believe it reflects genuine persuasion. Preprint. <https://doi.org/10.31234/osf.io/8gkqg>
- **Richardson, E.**, & Keil, F. (2022). Thinking takes time: Children use agents' response times to infer the source, quality, and complexity of their knowledge. *Cognition*, 224, 105073. <https://doi.org/10.1016/j.cognition.2022.105073>