Jared Donohue

jjd2203@columbia.edu

[Website](#) | [LinkedIn](#) | [GitHub](#) | [Google Scholar](#)

RESEARCH INTERESTS

Experimentation · Causal Inference · Philosophy of Science · Human Behavior · Human-Computer Interaction · LLMs · AI

EDUCATION

Columbia University   New York, NY
M.S. in Data Science   2024–2025

- Data Science Institute Scholar
- Highlighted Coursework: Design & Analysis of Online Experiments, Causal Inference, Philosophy of Science, Behavioral Economics, User Interface Design, Columbia Build Lab

George Mason University   Fairfax, VA
B.S. in Computer Science   2012–2016

- Teaching Assistant: Data Structures (Java)
- Peer Mentor: Intro Programming (Python), C Programming, Object-Oriented Programming (Java)

RESEARCH EXPERIENCE

Structured Dataset of Reported Cloud Seeding in the U.S. (2000–2025)   New York, NY
Jared Donohue, Kara D. Lamb. Peer-reviewed and published in [Nature Scientific Data](#)   2025

Strategic Route Choice in Navigation Apps (Level-K)   New York, NY
Jared Donohue [PDF](#)   2025

Predictive Market Segmentation of U.S. Trucking Companies   New York, NY
Ben Sullivan, Jared Donohue, Moacir Pereira, Jialin Wen [PDF](#)   2025

Experiment: Interventions to Uphold Rain Insurance Markets   New York, NY
Ricardo Pommer Muñoz, Jared Donohue, Jorge D. Ballestero [GitHub](#)   2025

WORK EXPERIENCE

Columbia Business School   New York, NY
Staff Research Associate   2026–present

- Designed, implemented, and evaluated experiments to improve AI-assisted coding interfaces with Professor David Holtz.
- Led meta-analysis of clinical trials to uncover systematic underreporting of treatment effects due to capacity constraints with Professor Hannah Li.
- Created a structured dataset of electric vehicle charging station utilization from 450GB of scraped json time series files with Professor Nicola Rosaia.

Amazon   New York, NY
Senior Product Manager   2022–2024

- Increased Echo Show engagement from 0.5% to 3% in 6 months by launching new multimedia content and running 10 UX experiments.
- Measured and reduced Alexa+ visual defect rate from 40% to 5% by implementing a random sample annotation workflow, then prioritizing and building the engineering solutions.
- Established experiment design review group serving 50+ PMs and engineers, elevating statistical rigor and best practices for running RCTs across Alexa organization.
- Designed and analyzed holdout experiments on Alexa Echo Show for screen ad launches, image presence, and audio cue features, measuring the causal impact on short- and long-term product engagement.

Product Manager
Boston, MA
2020–2022

- ○ Increased monthly active users on the Alexa Answers website from 5,000 to 40,000 in 12 months through marketing channel expansion and 10 conversion rate experiments.
- ○ Led quantitative and qualitative user research for the Alexa Answers website, using SQL and user surveys to uncover insights and prioritize feature development.

Software Development Engineer I–II
Boston, MA
2017–2020

- ○ Built experiment routing service enabling A/B testing of ML models in Alexa's Natural Language Understanding runtime.
- ○ Built 20+ full-stack features for web-based ML lifecycle management platform, empowering 100+ scientists to efficiently store and deploy new model variants.

REFERENCES

Kara D. Lamb
Research Scientist, Department of Earth and Environmental Engineering, DSI, Columbia University
kl3231@columbia.edu | website

David Holtz
Assistant Professor, Decisions, Risk, and Operations Division, Columbia Business School
david.holtz@columbia.edu | website

Hannah Li
Assistant Professor, Decisions, Risk, and Operations Division, Columbia Business School
hannah.li@columbia.edu | website

Nicola Rosaia
Assistant Professor, Decisions, Risk, and Operations Division, Columbia Business School
nr2864@columbia.edu | website

Wendy W. Moe
Dean's Professor of Marketing, Robert H. Smith School of Business, University of Maryland
wmoe@umd.edu | website

Ricardo Pommer Muñoz
PhD Candidate in Economics, Columbia University
rap2194@columbia.edu | website