Jared Donohue

jared.donohue@gmail.com · 757-513-7689 · Virginia Beach, VA · Website · LinkedIn · GitHub · Google Scholar

Product data scientist with 8 years at Amazon across software engineering and growth product management. M.S. in Data Science from Columbia University, now conducting experiments and causal inference research at Columbia Business School.

EXPERIENCE

Columbia Business School — Remote, U.S.

Staff Research Associate, Experimentation & Causal Inference — Jan. 2026 – Present

- Analyzed AI-agent use across 123,510 experiments run by 1,244 Optimizely customers. Found ideation agents reached the most firms, while analysis agents had the most repeat use. Identified diverging pre-trends and control-group attrition that undermined a causal interpretation of a reported 79% increase in experiment creation after AI adoption.
- Built, ran, and analyzed a randomized experiment testing how incentives and interface design affect developers' adoption of AI-generated code (Python, oTree, Prolific, SQL).

Product Science LLC — Remote, U.S.

Product Data Science & Engineering Consultant — Jun. 2025 – Oct. 2026

- Instrumented startup analytics (GA4 events and PostHog session replay) to identify friction in the user journey. Shipped an AI image-analysis feature to 200+ beta users, reducing journey steps 25% and scoring 6.5/7 CSAT.

Amazon — Boston, MA

Senior Technical Product Manager, Alexa Smart Displays — Jan. 2023 – Jan. 2025

- Grew Alexa smart display screen engagement 5x, from 0.5% to 2.5%, through content funnel analysis (SQL) and 10 A/B tests, including image presence, audio-visual cues, and showing multiple answers instead of one.
- Founded experiment review program for 50+ PMs and engineers. Wrote experiment guides and ran office hours. Guided designs on A/B/n experiments with 20+ variants, A/A diagnostics, overlapping experiments, and long-term holdouts.
- Defined and instrumented a new *visual relevance(%)* metric for Alexa+, Amazon's AI-powered Alexa. Set up a 4-person annotation workflow reviewing 300 visuals/week. Drove the metric from 60% to 94% in 6 months.

Technical Product Manager, Alexa Answers Website — Jan. 2021 – Dec. 2022

- Grew monthly active users 8x, from 5,000 to 40,000, in 12 months. Used mixed-methods research (SQL, Qualtrics) to trace churn to inconsistent moderation and low question quality, then shipped fixes and 15 A/B tests.
- Owned measurement across acquisition, conversion, and retention funnels. Launched and evaluated marketing experiments across email, mobile push, and SEO to grow new and returning visitors.
- Built ETL pipelines (SQL) and self-serve Redash dashboards for senior leadership's weekly business reviews.

Software Development Engineer I–II, Alexa — Mar. 2017 – Dec. 2020

- Designed and built an experiment routing service (Java, AWS) powering A/B tests of Alexa ML model variants, used for 50+ daily model deployments and experiments across an organization of 100+ data scientists.

SKILLS

Product Analytics: engagement growth, user journeys, conversion funnels, segmentation, cohorts, retention analysis, user research, Qualtrics surveys, session replay, GA4/GTM, self-serve dashboards

Experimentation & Causal Inference: A/B and A/B/n testing, metric and guardrail selection, power analysis, difference-in-differences, event studies, parallel trends checks, heterogeneous effects, frequentist and Bayesian inference

Programming & AI Tools: Python, R, SQL, Java, Git, AWS, ETL and data pipelines, database design, LLM extraction pipelines, Anthropic and OpenAI API integration, Claude Code, Cursor

EDUCATION

Columbia University — New York, NY

M.S. in Data Science — Aug. 2024 – Feb. 2026

- Data Science Institute Scholar with first-author publication in *Nature Scientific Data* (paper).
- Guest lecturer at the CUNY Graduate Center: *Using LLMs for Science* (slides).
- Electives in: Design & Analysis of Online Experiments, Causal Inference, Behavioral Economics, User Interface Design.

George Mason University — Fairfax, VA

B.S. in Computer Science — Aug. 2012 – Dec. 2016

- Computer Science Peer Mentor and Teaching Assistant for *CS310, Data Structures.*