

Garrett Petersen

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Professional Summary

Data leader and scientist with a PhD in Economics, focused on blockchain/DeFi and prediction market data systems. I build production analytics platforms and decision models end-to-end, from ingestion and data quality to market microstructure analysis and operator tooling. Experience spans data engineering, applied econometrics, and production analytics for fast-moving crypto market environments.

Experience

Head of Data and Strategic Insights - Capitola Labs - Remote - January 2026 - Present

- Promoted from Data Scientist in June 2026, expanding ownership from analytics delivery to data platform strategy, pipeline architecture, and research-serving infrastructure.
- Led the design and buildout of an AWS-native prediction-market data platform across S3, EC2, DynamoDB, EMR Serverless Spark, AWS Glue/Iceberg, ClickHouse, Snowflake, and Next.js.
- Built scalable ingestion and orchestration workflows that turn raw trades, fills, order books, and market metadata into research-ready datasets.
- Modeled high-volume market data into typed analytical tables, ClickHouse serving tables, and stable Snowflake views for research, dashboard, and API-facing analytics.
- Established production controls for large backfills and reliability, including health reporting, resumable processing, queue monitoring, retry-safe writes, and completeness checks.
- Improved ingestion throughput and AWS cost efficiency through batching, coalescing, late-data rechecks, backlog-aware task gating, and reduced DynamoDB/S3 churn.

Data Scientist - OpenBlock Labs - Remote - October 2023 - January 2026

- Designed, implemented, and operated token incentive programs for major blockchain protocols, directly distributing \$10M+ in incentives through data-driven allocation systems.
- Built analytics pipelines and dashboards in SQL/Python/Dune to optimize incentive outcomes and monitor on-chain user behavior.
- Partnered with engineering teams on production APIs and data tooling for protocol analytics and reporting.
- Evaluated mechanism performance using causal and statistical analysis to improve retention, efficiency, and resistance to gaming.

Machine Learning & Simulation Engineer - Gauntlet - Remote - September 2021 - June 2023

- Developed ML and Monte Carlo risk models used to stress test DeFi protocols, including Aave (~\$10B TVL at the time).
- Performed econometric analyses to model user behavior and improve protocol parameterization under volatile market conditions.
- Translated quantitative findings into parameter recommendations for protocol stakeholders and cross-functional teams.

Senior Data Scientist - Abio Systems - Victoria, BC - December 2019 - September 2021

- Built business intelligence analyses and visualizations to support go-to-market strategy and operations.

Education

- **PhD, Economics** - Simon Fraser University, Burnaby, BC (2014 - 2021)
- **MA, Economics** - Queen's University, Kingston, ON (2012 - 2013)
- **BSc (Honours), Economics; Minor in Mathematics** - University of Victoria, Victoria, BC (2008 - 2012)

Awards

Humane Studies Fellowship (2018), Adam Smith Fellowship (2019), Richard G. Lipsey Graduate Award (2020)

Skills

- Languages/Tools: Python, SQL, AWS (S3, EC2, ECS/Fargate, EMR Serverless, DynamoDB, Glue), Snowflake, ClickHouse, Terraform, Iceberg, JavaScript/TypeScript, React/Next.js, Dune Analytics
- Data/Modeling: Statistical Modeling, Machine Learning, Econometrics, Time Series, Experimentation, ETL, API Development
- Domain: Blockchain/DeFi Analytics, Prediction Markets, Market Microstructure, Incentive Design, Risk Modeling