

Nick Hughes

Analytical | Agile | Perceptive | Tenacious | High Emotional IQ

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Product manager-turned-quant enabling technical solutions to environmental challenges.

RESEARCH EXPERIENCE

Modeling Team Coordinator — *FruitPunch AI*; Remote **3 Months; 2023-Present**

- Collaborating on an NLP model to categorize & quantify emissions of bank transactions
- Utilizing text vectorization and transfer learning with an ensemble RNN /rule based classification method.

Team Lead; Research Fellowship — *The World Bank*; Remote **6 Months; 2022**

- Consulted on quantifying refugee aid program effectiveness in Burundi (beneficiary population: 2+ million)
- Facilitated client communications, bi-weekly updates and internal workflow assignment.
- Designed and co-authored a research paper that estimated heterogeneous treatment effects across refugee demographics using logit and causal forest models with double machine learning. [Link to Paper](#)

PERSONAL PROJECTS

Automated Trading Program — Remote **4 Months; 2022-Present**

- Developing ETL pipelines for stock data and technical indicator calculations for quantitative trading strategies.
- Deploying machine learning and deep learning models for predictive forecasting, grading model performance with F1 scores and custom performance metrics for automated trades.

EMPLOYMENT

Product Manager — *Backroads*; Europe & The Americas **5+ Years; 2017-2022**

- Served as client-facing product manager for week long active travel trips for c-suite clientele.
- Ad-hoc problem solving while managing collaborations between internal and external multicultural teams.
- Extensive stakeholder and client engagement experience: assuring positive customer experiences, facilitating presentations, setting expectations, partner recruitment, contract negotiation and onboarding.
- Leveraged performance data to identify trends and drive product improvement by 17% in my first year.

Environmental Advocate — *ASUO*; Eugene, OR **2 Years; 2012-2014**

- Developed responsible procurement and waste management practices for University of Oregon events.

EDUCATION

California Polytechnic State University **San Luis Obispo, CA**
Master of Science: Quantitative Economics **Graduated June 2022**

**4.0 GPA and Academic Honors*

Relevant Coursework: Advanced Econometrics I & II, Economic Research & Communication, Computing and Machine Learning for Economics, Dynamic Stochastic Modeling, Microeconometrics, Evidence-Based Decision Analysis, Machine Learning for Prediction and Causal Inference.

University of Oregon **Eugene, OR**

Bachelor of Science: Environmental Studies **Graduated June 2014**

**3.85 GPA and Departmental Honors*

-Senior Thesis: Climatic Risks Impacting National Food Security

TECHNICAL SKILLS & CERTIFICATIONS

- Python, SQL, Excel, R, Git, AWS, ArcGIS
- PADI SCUBA Divemaster
- Neural Nets, NLP Models, Machine Vision
- AIARE Avalanche Safety I Certified

LANGUAGES

English: Native **Spanish:** Professional Working Proficiency **Portuguese:** Currently Learning

GLOBAL EXPOSURE

Latin America: 3+ Years **Europe:** 2+ Years **SE Asia & Oceania:** 5 months **Africa:** 2 Months