Jason Zafir, PhD



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in LinkedIn (Github +971547152680

O United Arab Emirates, Canada, EU, Panama

童 Education

PhD, Anderson School of Management,

University of California, Los Angeles (UCLA) 2018 - 2023

Master's of Science, Applied Economics,

Department of Applied Economics, HEC Montréal 2012 - 2015

Bachelor's of Commerce, Finance,

John Molson School of Business, Concordia University 2008 - 2011

Diploma of College Studies, Computer Science,

Dawson College

2005 - 2008

□ Publications — Authorships

A Comprehensive Look at the Empirical Performance of Equity Premium Prediction II, The

Review of Financial Studies (Top 5 Journal in field) □

FREEtree: A Tree-based Approach for High Dimensional Longitudinal Data With Correlated

Features, arXiv — Statistics: Machine Learning □

Improving Inference with Machine Learning: Application to CEO Turnover, *Dissertation* □

Private Market Portfolio Forecasting and Optimization Using Machine Learning, *United States*

Patent and Trademark Office (Provisional Patent)

Skills

Python • R • SQL • Web Scraping • NNs •

NLP/LLMs • PySpark • Foundry • R Shiny •

LangChain • XGBoost • LightGBM • PySpark

D Professional Experience

ML Engineer — AI Lead,

Integrated Data Intelligence Ltd (Startup)

2023 – present | Abu Dhabi, United Arab Emirates

• Startup success forecasting using different AI algorithms, including gradient boost based and NLP based methods.

Data Scientist, EPAM (NYSE: EPAM, MktCap: \$20B) 2022 - 2023 | Remote

• Consultant: Time series forecasting investor behavior using a variety of machine learning algorithms. Event categorization, article clustering and sentiment analysis through NLP.

Analyst, Letko Brosseau (private fund, AUM: \$27B) 2014 - 2016 | Montreal, Canada

• Forecasting and modeling: emerging market economics, energy markets, corporate profits.

Intern — Quantitative Analysis,

CDPQ - Québec Public Pension Plans (AUM: \$286B) 2013 | Montreal, Canada

• Built PCA autoregression tool to forecast inflation.

Intern — Macroeconomic Analysis,

CDPQ - Québec Public Pension Plans (AUM: \$286B) 2013 | Montreal, Canada

• Forecasting and modeling: unemployment, gross domestic product, demographics, productivity.

Intern — Capital Markets, Scotiabank

2010 - 2011 | Montreal, Canada

• Data organization, interpretation & visualization.

Intern — **Trading Floor**,

Healthcare of Ontario Pension Plan (AUM: \$114B) 2009 | Toronto, Canada

• Software development for trading floor operators.

Intern — Software Development, CEDIB

2008 | Lyon, France

Professional Training

Forecasting with Machine Learning, *ML Course* □

• Time-series forecasting with XGBoost / LightGBM: data wrangling, model tuning and evaluation.

Machine Learning Projects

pandas-ai, *Contributor* ☑ Library that adds Generative AI capabilities to pandas.

FREEtree: Tree Method for High Dimensional Longitudinal Data, CRAN R package creator ☑

Earnings Sentiment Analysis: A Comparison of Transfer Learning Methods (BERT, ALBERT, XLNet), Natural Language Processing ☑

PropCast— Deep Inception-Convolutional LSTM Networks for Forecasting Spatio-Temporal Transitions in Property Index Heatmaps ☑

</> Publications — Research Assistance

Minimum Wage and Individual Worker Productivity: Evidence from a Large US Retailer,

Published, Journal of Political Economy $\ \ \, \boxdot$

 Analysis of minimum wage changes on store and employee outcomes of large US retailer (~5,000 stores). Linking together HR data, performance, turnover, scheduling, payments, geography, revenues and web scraping variables.

Government Debt Management: The Long and the Short of It,

Published, The Review of Economic Studies ☑

• Statistical analysis of US debt dynamics.

Unemployment Insurance with Limited Commitment Wage Contracts and Savings,

Published, BE Journal of Macroeconomics ☑

Researched conditions of unemployment benefits.

Household Search and the Aggregate Labor Market,

Published, The Review of Economic Studies ☑

• Statistical analysis using US CPS household data.

Counterproductive Worker Behavior After a Pay

Cut, Published, Journal of the European Economic Association ☑

Difference-in-difference regression modeling of how workers reacted to a pay cut in a sales call-center.

Awards

UCLA Anderson doctoral fellowship, \$140,000

FRQSC - Provincial doctoral scholarship, \$84,000

Nominated - Best Master's Thesis (2015) ☑

Academic Excellence Award (2012 & 2013)

Highest average of the Master's program.

Academic Excellence Award (2007)

Highest average of the Computer Science program.

\$2DS, Europe's largest data science training bootcamp 2023 | London, United Kingdom

 Intensive, industry-linked project-based training for top PhD students. ☑

Kenneth Woods Portfolio Management Program,

John Molson School of Business, Concordia University 2009 – 2012 | Montreal, Canada

• Hands-on training in investment management working with a real-life portfolio of over \$5 million.

E Teaching Assistance

MGMT 439: Tools and Analysis for Business Strategy (introduction to data science), *Graduate level (UCLA)*

MGMT 264A: Market Research (regression, dimensionality reduction and clustering),

Graduate level (UCLA)

MGMT 403: Financial Accounting,

Undergraduate level (UCLA)

ECO 680109: Applied Econometrics,

Graduate level (HEC Montréal)

ECO 600112A: Economic & Corporate Organization,

Graduate level (HEC Montréal)

ECO 380607: Introduction to Econometrics,

Undergraduate level (HEC Montréal)

Personal Tutor,

Economics, Computer Science, Data Science.

Machine Learning PhD Classes

ENGR C247: Neural Networks & Deep Learning,

UCLA Engineering Department, Grade: A

BIOSTAT 273: Classification and Regression Trees,

UCLA Biostatistics Department, Grade: A+

COM SCI 263: Natural Language Processing,

UCLA Computer Science Department, Grade: A

STATS 232C: Cognitive Artificial Intelligence (Reinforcement Learning),

UCLA Statistics Department, Grade: A+

A Languages

English

(Native)

French

(Fluent)

Bulgarian

(Fluent)