MATT DELVENTHAL

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EXPERIENCE

2022- Data Scientist, Art of Problem Solving
- **Broke ground** as first dedicated data analyst for a major e-learning product
- **Instigated** development of improved company-wide analytics and reporting system
- **Developed** & validated new metrics of user experience & product performance
- **Established** new product-tailored methods of analysis
- **Coordinated** with data stakeholders to plan company-wide initiatives
- **Evaluated impact** of major product changes using difference-in-difference estimation
- **Delivered** ~2 substantial novel interactive reports per month

2018-22 Assistant Professor of Economics, Claremont McKenna College
- **Managed** 6 simultaneous in-depth research projects:
  - ► **Trained and supervised** 12 research assistants
  - ► **Recognized** for analysis of remote work: [PUBLICATION] [CONFERENCE] [INTERACTIVE APP]
  - ► **Won** 4 research grants totaling $168k
  - ► **Media coverage:** LA Times, Time Magazine, The Economist, others
- **Taught** courses: Spatial data analysis; Analysis of price and wage data; Causal inference
- **Presented** research to academic and non-academic audiences
  - ► 40+ scholarly presentations, including at Brown U., Natl. Bureau of Economic Research, U. of Pennsylvania, Minneapolis Fed, Philadelphia Fed., UC San Diego.

2013-17 Research Assistant, MOVE, UAB
- **Built** database of birth/death stats for 188 countries over 500+ years
- **Created** method to **measure + analyze** global demographic transitions [INTERACTIVE APP]
- **Programmed** optimization algorithms for custom, non-linear statistical models

2011-12 Human Capital Analyst, ICF International
- **Developed** analysis tool to optimize across 57 IT systems for U.S. Navy.
- **Overhauled** financial reporting for a U.S. Air Force project worth $7 mil/year.
- **Designed** web-based leadership training for the US Army.

2005-09 Psychological Operations Sergeant, U.S. Army
- **Designed experiments** to pre-test Arabic-language radio and TV ads
- **Gathered + analyzed** data for weekly target audience reports
- **Interpreted** regular meetings between U.S. and Iraqi officials

2004-05 Business English Teacher, Intl. Communication Institute, Guadalajara, Mexico

EDUCATION

Ph.D. in Economics, Universitat Autònoma de Barcelona, 2018

M.A. in Economics, Universitat Autònoma de Barcelona, 2014

B.S. in Economics, University of Missouri-Saint Louis, 2010

SKILLS

Software: AWS, SQL, SciPy, Pandas, OSMnx, Beautiful Soup, PyDeck, Altair, R, QGIS

Methods: Linear + logistic regression, Monte-Carlo sim, DiD estimation, SVM, VAR

Languages: English, Arabic, Spanish, Catalan