

# C. Daniel Guetta, PhD

## Experience

- Columbia Business School, Columbia Engineering** New York, NY  
**Director of the Business Analytics Initiative, Senior Lecturer in Discipline** 1/18 – ongoing
- > Researching application of Markov Decision Processes to the design of data-driven control systems with quantifiable optimality gaps for complex, capacity-constrained inventory fulfillment networks.
  - > Researching ways businesses can integrate analytics into their operations to drive value; authored award-winning case studies on the subject with a number of companies. Co-authoring "Python for MBAs," due fall 2020. Presented to CBS Board of Overseers on implications for CBS's current and future analytics curriculum.
  - > Co-teaching "Analytics in Action," supervising eight concurrent, semester-long data science projects carried out by teams of MBA and engineering students with local companies. Projects range from predictive analytics to prescriptive analytics and visualization, and have led to changes in companies' operations and student hires.
  - > Developing XLKitLearn, an Excel-Python interface to expose the power of Python data science packages to non-coders through Excel. Created school's largest MBA analytics elective; course enrolment grew fivefold in a year, attracted consistent outstanding student feedback, and was featured on the Bloomberg Businessweek podcast.
  - > Consulting with a number of organizations. Subjects ranging from sports analytics, to training for employees with a range of backgrounds, to designing call schedules for Einstein OB-GYN residents using mixed integer LPs.

- Palantir Technologies** New York, NY  
**Deployed Computational Engineer (data scientist/engagement manager)** 10/14 – 12/14, 10/15 – 12/17
- > Worked on project teams focusing on modeling and data-integration problems faced by Palantir's clients. Transitioned to owning projects with teams of up to 20 people; directed team's day-to-day work and acted as main face of the company with clients to shape strategic direction of projects.
  - > Created entity-resolution platform integrating data from five distinct systems for defendant's counsel in class-action lawsuit. Platform saved hundreds of man-hours of manual review. Output was approved by Judge and plaintiff's counsel as ground truth, and was included in court orders. First author on patent pending.
  - > Designed interactive dashboard for the analysis of early-stage clinical trial data as part of pilot engagement, leading to modified plans for later-stage trials, and signing of Palantir's then-biggest pharma contract.
  - > Co-led 10-person team at major non-bank lender. Integrated data from multiple systems to empower business users with data to streamline loan issue process and build model to predict probability of loans closing. Project led to a restructuring of the company's data science resources to place them closer to key business stakeholders.
  - > Took over team responsible for troubled AdaBoost-based credit decisioning system at one of the world's largest banks. Created detailed remedial plan including strict QA and model-monitoring systems. Communicated problems and re-launch timeline to client, and oversaw successful re-launch of the model.
  - > Designed canonical demo of Palantir's software used in meetings with prospective clients.

- Amazon.com** Seattle, WA  
**Research Scientist Summer Intern** 6/13 – 8/13
- > Researched and developed diagnostic measures and visualization techniques for Amazon's supply chain

- Columbia University, Graduate School of Arts and Sciences** New York, NY  
**Doctoral Program in Operations Research (PhD)** 2010-2015
- > Thesis: "*Applied Inventory Management: New Approaches to Age-Old Problems*". Advisors: A. Federgruen, G. Iyengar
  - > Coursework in optimization, probability, ML, AI, Bayesian methods. Deming Doctoral Research Fellowship.

- St John's College, University of Cambridge** Cambridge, UK  
**Massachusetts Institute of Technology (full year abroad)** Cambridge, MA  
**Part III Mathematics (MMath) – Distinction (highest possible honors)** June 2010  
**B.A. in Natural Sciences (Mathematics and Physics) – 5.0/5.0 GPA and 1<sup>st</sup> Class Honors** June 2009
- > Larmor Award; various prizes for best academic performance in year across all subjects in college.
  - > President and Treasurer of the Cambridge University Jewish Society, Associate Editor of the Triple Helix.

Fluent in French (mother tongue) and English. Conversational Hebrew and tourist Spanish. Skiing, spinning, crossfit. Amateur pastry chef, foodie, and magician. Reservist for the British team of the International Olympiad in Informatics.

## Education

## Interests