

C. Daniel Guetta

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Education

Columbia Business School, Columbia University **New York, NY**
Doctoral Program, Decision, Risk and Operations Division. 2010 – 2015

- Advisors: Awi Federgruen & Garud Iyengar.
- Thesis: *Applied Inventory Management: New Approaches to Age-Old Problems*
- Relevant coursework: optimization, probability & stochastic processes, data mining & machine learning, Bayesian methods. Applications to finance, service systems, inventory management.

St John's College, University of Cambridge, Department of Mathematics **Cambridge, UK**
Master in Mathematics (Part III Mathematics). **Distinction** (highest possible honours). June 2010

- Courses: Time Series and Monte Carlo Inference, Actuarial Statistics, Mathematics of Operational Research, Statistical Theory, Applied Statistics, Biostatistics.
- Long essay on high dimensional variable selection.
- Horne Scholarship for academic performance, and Larmor Award (St John's highest honour for undergraduates) for "intellectual qualifications or moral conduct and practical activities".

Massachusetts Institute of Technology – MIT (year-abroad) **Cambridge, MA**
St John's College, University of Cambridge **Cambridge, UK**

B.A. in Mathematics and Physics. **5.0/5.0 GPA** and **1st Class Honours**. June 2009

- United Steel Companies Scholarship, JP Read Prize, Johnston Year Prize, Hockin Prize and College Prize for best academic performance in the year across all subjects in college.

Immanuel College **Bushey, Herts**
Secondary education June 2005

- 10 GCSEs at **Grade A***. 7 A-Levels at **Grade A**. 4 Advanced Extension Awards. A-Level grades in Computing and Biology were amongst top five in the UK. Appointed Head Boy.

Experience

Columbia Business School, Columbia Engineering **New York, NY**
Director of the Business Analytics Initiative, Lecturer in Discipline Jan 2018 – ongoing

- Coordinating Business Analytics and Big Data curriculum, including development of innovative elective classes and leveraging existing classes within the school.
- Organizing a series of events, including case competitions, guest speakers from the university and industry, and lunch and learns for students and faculty interested in analytics.

Palantir Technologies **New York, NY**
Data Scientist & Engagement Manager (*intern, then full time*) Oct 2014 – Jan 2018

- Led teams of up to 20 people in four countries on Palantir's most analytically complex projects in fields including financial services, pharmaceuticals, law, and energy.
- Part of a team of specialist engineers in their respective disciplines, called upon to deal with the toughest modelling and statistical problems faced by deployments at Palantir

Amazon.com, Modelling & Optimization Team **Seattle, WA**
Research Scientist Intern May 2013 – August 2013

- Researched and developed diagnostic measures and visualization techniques for various parts of Amazon's distributed supply chain. Developed prototype for a front-end GUI.

Columbia Business School **New York, NY**
Tutor and Teaching Assistant 2010 – 2013

- MBA Decision Models and Managerial Statistics courses, and PhD Convex Optimization course.
- Re-designed review sessions from ground-up, created new case, coordinated team of TAs.

- Citi** **Canary Wharf, London, UK**
Summer Analyst Summer 2010, 10 weeks
- *Financial Strategy Group, Investment Banking Division*: re-designed FSG's Monte-Carlo simulators for company Capital Structure and Liquidity.
 - *Quantitative Investor Solutions, CitiFX*: Designed Risk Management model for client from scratch. Worked on portfolio selection using sparse learning methods to hedge equity risk using currencies.
- St John's College, University of Cambridge** **Cambridge, UK**
Head of Physics Teaching Support 2009/2010, year-long
- Ran drop-in sessions and examples classes. Designed, examined and graded college examinations.
- Columbia University, Chazen Business School** **New York, NY**
Chazen Visting Scholar in the Marketing Division Summer 2009, 12 weeks
- Worked on mathematical model for optimal package sizing of perishable goods.
 - Attended seminar series comprising broad overview of current research in the department.
- Massachusetts Institute of Technology** **Cambridge, MA**
Graduate Teaching Assistant 2008/2009, year-long
- Coordinated teaching staff and administered 105-student MIT Mechanics class. Students obtained highest scores in MIT in final exam. Also developed and lectured integrated approach to reviewing mechanics. Lectures were consistently packed out.
 - Most highly rated instructor in student evaluations, scoring 5.0/5.0.
- California Institute of Technology** **Pasadena, CA**
Summer Undergraduate Research Fellow Summer 2008, 10 weeks
- Reviewed and synthesised large body of literature on biological algorithms, culminating in the design of a method for enzyme-free constant-temperature DNA quantisation.
- Zlio S.A.** **Raanana, Israel & Paris, France**
Managerial Assistant Summer 2007, 8 weeks
- Acted as primary advisor to the CEO of dynamic e-commerce start-up. Assisted operations which increased number of clients by about 30% in a month. Designed algorithms still used by company.
 - Surveyed data from three departments to compile working summary of company's database system. Subsequently saved tens of hours of staff time within company.
- Technion, Israel Institute of Technology** **Haifa, Israel**
Research Assistant 2003
- Programmed novel GUI system to simulate Turing Machines with application to the theory of computation and teaching introductory computer science.

Leadership & Activities

- The Future Project (www.thefutureproject.org)**
Coach & Coach Trainer and Facilitator
- Trained coaches and represented The Future Project leadership at events in New York, New Haven and Washington DC as part of the launch of new nationwide education movement.
 - Mentored and coaches high-school student at Richard R. Green School of Teaching, NYC.
- Columbia University Bayit** – Financial Representative
- Responsible for large budgets in student-run food-coop.
- Cambridge University Scientific Society** – Director of Publicity, Press & Marketing
- Managed the PR team in Cambridge's largest and most active science society. Events attracted such speakers as Simon Singh, Sir Tim Hunt and Bjorn Lomborg. Raised attendance to events from 50 up to 550 as a result of publicity efforts.
- Cambridge University Triple Helix** – Associate Editor
- Edited Cambridge's peer-reviewed student Science magazine, dealing with applications of Science to Society. Co-authored a poster presented at the international AAAS conference.

Cambridge University Jewish Society – President, Treasurer

- Managed 30-person committee in organising over 35 events. Attracted speakers such as Maureen Lipman and Anthony Julius, over 200 people, and the attention of the national press and radio.

Cambridge University Biology of Cells Student Consultative Committee – Student Representative

- Mediated between student body and faculty. Persuaded committee to change focus of introductory freshman lectures following lengthy negotiations.

Awards, skills & interests

- Winner of the 2018 INFORMS Case Competition
- Deming Doctoral Research Fellowship, The W. Edwards Deming Center, 2013
- Doctoral Fellowship, Columbia Business School, 2010-2015
- Awarded one of the top six spots in the UK in the British Informatics Olympiad comprising various programming tasks of increasing difficulty.
- AQA award for obtaining one of the top five A-Level Biology and Computing scores in the UK.
- Millennium Volunteers Award, awarded by the Minister for Education.

Outside Activities

- Residency schedule design for OBGYN residents at the Montefiore Medical Centre, Bronx, NY
- Talk on data science at the New York City Department of Finance
- Work with various NYC startups with CBS students as part of “Analytics in Action” class
- Wrote a Case with Cargo, a peer-to-peer sales startup, and working on research with the company
- Wrote a Case with Evisort, a text-mining startup, and working on research with the company
- Writing a case with Dig Inn, and working on research with the company
- Working on research with Save the Children, Denmark

Skills & interests

Languages & Skills

- Fully fluent in French (mother tongue) and English. Conversational Hebrew and tourist Spanish
- Python, R, Excel, VBA, Google Cloud platform. Ability to learn other languages to a high level quickly and efficiently.

Interests

- *Sports*: Skiing and swimming. *Music*: Amateur Piano player. Amateur magician.