

Jonathan Z. Amar

Data Scientist at Verily – PhD in Operations Research

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Professional, Research Experience and Projects

- Feb 2021–Present **Data Scientist**, VERILY LIFE SCIENCES, Cambridge, MA.
- Sep 2016–Jan 2021 **Research Assistant**, MIT, Cambridge, MA.
Topics: Analytics in Revenue Management, Machine Learning, Demand Estimation, Online Optimization.
Selected Projects:
- Demand Estimation and Personalized Assortments from Cross-Store Data for Beer Retailer
 - Infection Modeling for COVID-19 Policy Alliance
 - Distribution Free Algorithms for Network Revenue Mangement
 - Dynamic Approach to Eliciting Customer Preferences
 - The Second-Price Knapsack Problem: Near-Optimal Real Time Bidding in Internet Advertisement
 - Deep Reinforcement Learning for 2048
- Advisor:* Nikolaos Trichakis
Teaching Assistant: Operations Management (Fall 2017, Spring 2019, Summer 2019), MBA elective course and Executive program.
- Jun 2018–Sep 2018 **Data Scientist Intern**, UBER, San Francisco, CA.
Marketplace Optimization, Dispatch
- Incorporate predictive signals into matching decisions
 - Understand and approximate optimal decisions in an online setting
- Mar 2016–Aug 2016 **Research Internship**, TECHNION, Haifa, Israel.
Robust optimization in Machine Learning techniques.
Advisor: Aaron Bental and Tamir Hazan
- Sep 2015–Mar 2016 **Research Project**, SHOR TOUCH, Paris, France.
Most relevant and shortest path design in network of friends.
- Jun 2015–Aug 2015 **Development Intern**, INSENSI INC., New York.
Created a dashboard to aggregate the large data generated by the Ily device (landline phone). Metrics visualisation.
- Mar 2015–Jun 2015 **Research Assistant**, CMAP, ECOLE POLYTECHNIQUE, Paris, France.
Estimating joint spectral radius and applications. Analysis of commutation systems, using path-complete graph theory to estimate the stability of switched dynamical systems. *Advisor:* Yassine Chitour.
- Sep 2014–May 2015 **Research Project**, POLESTAR, ECOLE POLYTECHNIQUE, Paris, France.
Indoor localization, optimization of supply chain. Used path theory and Markov Chain proprieties to optimize the university organization. Finalist for PSC AWARD at Polytechnique.
- Sep 2014–Jun 2015 **Physics Intructor**, STANISLAS, Paris, France.
Provided weekly training courses for undergraduate students in math and physics.

Education

- 2016–2021 **PhD**, MIT, Cambridge, 5.0/5.
Operations Research. Relevant Courses: Linear, Dynamic, Robust Programming, and Machine Learning. Advanced Algorithms.
- 2013–2016 **MS - BS**, Ecole Polytechnique, Paris, France, 3.95/4.
One of the finest schools for sciences and engineering. Applied Mathematics, Operations Research, Optimization, Computer Science, Finance, Data Science, Statistics and Probabilities.
- 2011–2013 **Preparatory Program**, Lycée Massena, Nice, France, 3.99/4.
Two-year undergraduate program leading to nationwide entrance examinations to the French Grandes Ecoles for scientific studies. Analysis, Algebra, Fundamental Physics

Skills

Selected for Fulbright - Monahan scholarship

Languages **French** mothertongue **English** mothertongue **Hebrew** European C1 **Spanish** European C2
Programming Python (expert), Julia (expert), C++, SQL, R

Interests

- Volunteering Summer experience in the biggest Filipino NGO GAWAD KALINGA, promoting social-entrepreneurship.
Other Basketball, Swimming, Windsurfing. Piano.