



Andreea Georgescu

With a background in mathematics and operations research, my interests lie in complex systems, predominantly in business and economics. I am motivated by bringing math, data, and creativity to tangible decision problems.

SKILLS

Quantitative Research
Applied Mathematics

Analytical and strategic thinker
Clear communicator
Detail oriented
Collaboration in diverse and fast-moving teams

Python, Julia, R
SQL (MySQL, Hive)
Microsoft Office

English (full working proficiency)
Romanian (mother tongue)

Bouldering (V7-9), Climbing (5.12)
Contract Bridge

EDUCATION

Massachusetts Institute of Technology, 09/17 –
Cambridge, MA 06/22
PhD in Operations Research, GPA 4.9/5

Stanford University, Stanford, CA 09/13 –
BSc with Honors in Mathematics 06/17

Mihai Viteazul National College, 09/09 –
Bucharest, Romania 06/13

COURSEWORK

Machine Learning, Inference and Information,
Optimization, Stochastic Processes, Operations
Management, Game Theory, Market Design,
Networks, Organizations Management, Advanced
Algorithms

AWARDS

- MIT Fintech Challenge, 2nd place 02/19
- Stanford Math Undergraduate 06/17
Research Award
- Phi Beta Kappa 06/17
- National Romanian Mathematics 04/13,
Olympiad – bronze medalist in 04/12
2012, silver medalist in 2013.

(650) 798-9043

andreeag@mit.edu

622 Boston Avenue, Ste. 8E, Medford, MA, 02155

QUANTITATIVE RESEARCH – ACADEMIC EXPERIENCE

Graduate Research Assistant, 09/17 –
MIT, Cambridge, MA present
Advisors: Retsef Levi and Vivek Farias.

ACADEMIC RESEARCH

Optimization and Estimation of Non-Parametric Synergistic Models 10/17 –
present

- Investigating tractability of these problems under a synergistic, non-monotone choice model, motivated by behavior literature.

Fast ML Estimation of Discrete Mixtures of MNL Models 03/18 –
present

- Careful seeding techniques for EM and / or clustering variants. Empirically, exponential convergence rate compared to linear with common seeding.

DATA DRIVEN PROJECTS

Supply Chain Optimization for Large US Retailer 01/19 –
present

- Working with large US retailer to refine unit of measure for SKUs and optimize replenishment across supply chain.

Speech Diarization in Monty Python Sketches 09/18 –
12/18

- Performed speech diarization using atypical data – the averaged spectrogram data for the time interval of any line in the sketch.

Reducing High No-Show Rates Impact in Ambulatory Practice 10/18 –
Led data science on consultancy project for large hospital in Boston. 02/19

- Proposed strategy to increase provider utilization without hurting patient satisfaction and mapped the institutional and IT barriers the hospital faces in trying to tackle the problem.

QUANTITATIVE RESEARCH – INDUSTRY EXPERIENCE

Investment Associate Intern, 06/16 –
BRIDGEWATER ASSOCIATES, Westport, CT 08/16
Worked in the research department – currency team.

- Used quantitative methods and market understanding to propose and execute on research questions.

Business Analyst Intern, 06/15 –
NOMIS SOLUTIONS, San Bruno, CA 08/15
Performed research and development on the pricing model.

- Successfully introduced an engineered feature to the model, based on newly available data; fully integrated the new data and feature in the automatized pipeline (in Hive).

Intern, 08/12
FAIR ISAAC CORPORATION (FICO), San Jose, CA

- Completed small projects using data mining techniques for the analysis of unstructured data as well as applications of linear algebra in the field of text analytics.