

Hamed Nilforoshan-Dardashti

I am broadly interested in developing **data science** and **machine learning** methods to quantify, understand, and mitigate **structural inequalities**.

EDUCATION

Stanford University Palo Alto, CA
Ph.D. Computer Science 2020 – 2025 (Expected)

- **Rotation advisors:** Jure Leskovec, Sharad Goel, Chris Piech

Columbia University New York, NY
B.A. Computer Science | **GPA:** 4.106, *Summa Cum Laude* (Top 5%) 2015 – 2019

- **Courses:** Machine Learning, Artificial Intelligence, Modeling Social Data, Computer Networks, 3D UI and Augmented Reality, Systems Programming in C/C++, Data Structures and Algorithms, Probability and Statistics, Discrete Math
- **Leadership:** Comedy House (Co-Founder and Community Coordinator), Muslim Students Association (Vice President)

HONORS

Stanford Knight-Hennessy Scholarship - \$365,000 - Three years of graduate tuition, room, and board (< 2% acceptance rate)
NSF Graduate Research Fellowship - \$138,000 - Three years of financial support for graduate research
Phi Beta Kappa, Columbia University - Awarded to top 10% of Columbia College graduates
Snapchat Research Scholarship - \$10,000 - Awarded to 8 students annually for outstanding coursework and research depth
Columbia John Jay Scholarship - Awarded to top 1% of Columbia College applicants
Columbia Computer Science Russell Mills Award - \$256 - Awarded to 4 students annually for academic excellence in CS
Columbia Venture Competition Finalist - Top 5 startups founded by Columbia students, out of over 100 companies
Columbia Fastpitch Winner - \$1,500 - Awarded 2nd place from over 60 companies pitched
Columbia NRHH (National Residence Hall Honorary) - Best Residential Community, for founding Comedy House
National Merit Scholar - \$2,500

EXPERIENCE

Graduate Research Assistant, Stanford University 2020 – Present
Investigating the relationship between clinical trial diversity and post-market drug safety.

Machine Learning Data Scientist, Airbnb Inc. 2019 – 2020
Developed and launched algorithms to mitigate theft, fraud, and money-laundering on the Airbnb marketplace.

Research Intern, Snapchat Research 2018 – 2019
Designed a novel graph model and algorithm to identify fraud rings (e.g. scams, fake news, botnets) on Snapchat [1].

Research Assistant, Stanford University 2017 – 2019
Studied how environmental factors affect food consumption, and proposed interventions to reduce diet health inequalities [2].

Data Science Intern, Airbnb Inc. 2018
Studied racial discrimination against African-American guests on Airbnb, and prototyped methods to reduce it.

Research Assistant, Columbia University 2015 – 2018
Designed and evaluated novel AI methods to generate automated writing feedback [3].

- Co-Founder and Project Lead, Bites App, Inc.** 2015 – 2016
Developed a food marketplace app for iOS and Android, providing fresh, affordable, home-cooked meals to college students.
- Education Coordinator, Massachusetts Institute of Technology** 2015 – 2015
Taught entrepreneurship to students at MIT Launch, a summer program and startup incubator for high-school students.
- Citizen Teacher, Citizen Schools** 2013 – 2014
Taught programming and video game design to Boston public schools students at the Orchard Gardens Middle School.
- Founder and Lead Engineer, AlNoor Games** 2012 – 2015
Built and published multiple web games with over 100,000,000 cumulative plays, while still in high-school.

PUBLICATIONS

- [1] **Hamed Nilforoshan**, Neil Shah. “SliceNDice: Mining Suspicious Multi-attribute Entity Groups with Multi-view Graphs.” in IEEE DSAA 2019. Washington, D.C. [29% acceptance rate] <http://hamedn.com/dsaa-19.pdf> + 2 patents pending
- [2] Tim Althoff, **Hamed Nilforoshan**, Jenna Hua, Jure Leskovec. “How Food Environment Impacts Dietary Consumption and Body Weight: A Country-wide Observational Study of 1.5 Billion Food Logs.” to be submitted to JAMA (Journal of the American Medical Association). In Preparation. <http://hamedn.com/jama18.pdf>
- [3] **Hamed Nilforoshan**, Eugene Wu. “Leveraging Quality Prediction Models for Automatic Writing Feedback.” in AAAI ICWSM 2018. Stanford, CA. [16% acceptance rate] <http://hamedn.com/dialectic-icwsm18.pdf>