

# Yonatan Naamad

## PERSONAL INFORMATION

*Location:* Sunnyvale, CA  
*Mobile:* 617-543-2068

*WWW:* [www.yonatan.us](http://www.yonatan.us)  
*E-mail:* [me@yonatan.us](mailto:me@yonatan.us)

## EDUCATION

### **Princeton University**, Princeton, New Jersey, USA

Ph.D. Computer Science (Theory), 2017

- Advisor: Moses Charikar
- Research area: Theory of Algorithms
- Thesis title: *Hardness from Densest Subgraph Conjectures*
- 2 years spent as visiting student at Stanford University

M.A. Computer Science (Theory), 2013

- Advisor: Moses Charikar

### **Rensselaer Polytechnic Institute**, Troy, New York, USA

M.S. Applied Mathematics, 2011

- Advisor: Peter Kramer

B.S. Computer Science and Mathematics, 2011

- Summa Cum Laude

## APPOINTMENTS

### **Amazon.com, Inc.**

#### **Applied Scientist**

- Emerging Devices
- Core Machine Learning / AWS AI Lab

**June 2018 - Present**  
**June 2017 - June 2018**

#### **Applied Scientist Intern**

- Core Machine Learning

**Summer 2016**

### **RPI / Princeton**

#### **Teaching Assistant**

- *Assistant Instructor* - Networks, Economics, and Computation **Spring 2013**
- *Assistant Instructor* - Networks, Economics, and Computation **Fall 2012**
- *Teaching Assistant* - Calculus II **Spring 2011**
- *Teaching Assistant* - Introduction to Discrete Structures **Fall 2010**
- *Teaching Assistant* - Multivariable Calculus & Matrix Algebra **Spring 2010**
- *Undergraduate Teaching Assistant* - Introduction to Logic **Fall 2009**
- *Undergraduate Teaching Assistant* - Data Structures and Algorithms **Spring 2009**

### **World Bank**

#### **Temporary Employee**

- Short Term Temporary - Databases / Imputation

**Summer 2009**

### **EMC Corporation** (now Dell EMC)

#### **Summer Intern**

- Technical Competitive Analysis Group Intern
- Performance Group Intern

**Summer 2007**  
**Summer 2005**

RESEARCH  
(ALL ORDERED  
ALPHABETICALLY)

D. Eswaran, C. Faloutsos, N. Mishra, Y. Naamad , “Intervention-Aware Early Warning” *Proceedings of the 19th Industrial Conference on Data Mining (ICDM) 2019*

M. Charikar, Y. Naamad, J. Rexford, X. Zou “Multi-Commodity Flow with In-Network Processing” *Accepted to the 4th International Symposium on Algorithmic Aspects of Cloud Computing (ALGO CLOUD) 2018*

M. Charikar, Y. Naamad, A. Wirth “On Approximating Target Set Selection” *Proceedings of the 19th Intl. Workshop on Approximation Algorithms for Combinatorial Problems (APPROX) 2016*

M. Chakraborty, S. Das, A. Lavoie, M. Magdon-Ismael, Y. Naamad “Instructor Rating Markets” *Proceedings of the Twenty-Seventh AAAI Conference on Artificial Intelligence* 2013  
Abstract appeared in the *Proceedings of the Second Conference in Auctions, Market Mechanisms, and Their Applications (AMMA) 2011*

E. Anshelevich, S. Das, Y. Naamad “Anarchy, Stability, and Utopia: Creating Better Matchings” *Autonomous Agents and Multi-Agent Systems (AAMAS) 2013*  
Prior conference version appeared in *Proceedings of the 2nd International Symposium on Algorithmic Game Theory (SAGT) 2009*

M. Charikar, Y. Naamad, J. Wu “On Finding Dense Common Subgraphs” *Manuscript*

M. Charikar, Y. Naamad, A. Wirth “On DkS-hardness for MinRep-hard Problems” *Manuscript*

AWARDS

**COMAP Mathematical Contest in Modeling**

- 2011 - Outstanding Winner for Problem B (Repeater Coordination)
- 2010 - Outstanding Winner (SIAM Prize) for Problem B (Criminology)

**Princeton Internal Awards**

- 2014 Computer Science Graduate Teaching Award

**RPI Internal Awards**

- 2011 Paul A. McGloin Prize in Computer Science
- 2010 Founders Award of Excellence
- 2010 RPI Mathematics PhD Preliminary Exam “Passed with Distinction”

SKILLS

Development: **C**, C++, C#, Haskell, **Java**, **Javascript**, Julia, Lua, Matlab, MIPS, **PHP**, Prolog, **Python 2/3**, Scheme, SQL, Visual Basic 6/.Net

Tools: AMPL, Arduino, Git, Keras/Tensorflow, scikit-learn, L<sup>A</sup>T<sub>E</sub>X, Unity

Operating Systems: Windows, Linux, MacOS, FreeBSD

Languages: English (native), Hebrew (native), Spanish (elementary)

CITIZENSHIP

Citizen of both USA and Israel.