Meryem Essaidi

Merwick Stanworth
Princeton, NJ 08540
(917) 306-4432
messaidi@princeton.edu
essaidi.meryem@gmail.com

EDUCATION

Princeton University, Princeton   [May 2017 - May 2022]
Candidate for PhD in Computer Science
Advisor: Prof. S. Matthew Weinberg

University of Pennsylvania, Philadelphia   [Aug 2012 - Dec 2016]

School of Engineering and Applied Science '16
Master of Science in Engineering
Bachelor of Science in Engineering
Major: Computer Science – Minors: Mathematics, Economics

Lycée Descartes, Morocco — *HS French Baccalaureat '12*

EXPERIENCE

Google, New York — *Software Engineer Intern* [May 2015 - Aug 2015]

Worked as a member of the Superroot Team in Google Search and developed a testing tool called Speekiffy.

Google, Mountain View — *Engineering Practicum Intern* [May 2014 - Aug 2014]

Worked as a member of the Local Search Team and developed a screendiff tool for a stable front end UI.

Ministry of Energy and Mines, Morocco — *Intern* [June 2013 - July 2013]

Worked with a team of engineers to get familiar with the workplace, the responsibilities of an engineer, and teamwork dynamics.

RESEARCH

University of Pennsylvania, Philadelphia — *Research*

May 2016 - May 2017, Prof. Boon Thau Loo

Studied how social engagement and start-up fundraising success are correlated by using novel metrics to quantify investments. Analysed the data by grouping investors into communities and studying their behavior. Worked with a PhD student on this longitudinal study and published two papers.

Senior Design Project — *Research*

August 2015 - May 2016

Investigated various nonstandard random walks in order to find those more rapidly mixing. Focused on finding unbiased matchings of residents to hospitals, and represented all matchings as nodes in a graph and performed our walks. We reduced the maximum deviation from the standard distribution on certain input graphs, and improved time by a factor of 3, over standard random walks.

PUBLICATIONS/RESEARCH MATERIAL:

"Predicting Startup Crowdfunding Success through Longitudinal Social Engagement Analysis" Qizhen Zhang, Tengyuan Ye, Meryem Essaidi, Shivani Agarwal, Vincent Liu, Boon Thau Loo. *(CIKM 2017)*
http://www.cis.upenn.edu/~qizhen/cikm17-zhang.pdf

"Minimizing Bias in Residency Matching: A Study in Non-Standard Random Walks" Rebecca Baumher, Jeremy Bierema, Scott Buchanan, Meryem Essaidi
Not an official paper, but a paper report on research done for Senior Design
www.seas.upenn.edu/~cse400/CSE400_2015_2016/reports/report_7.pdf

SKILLS

Java, Python, C, OCaml, Unix.

LANGUAGES

Arabic, French, English, Spanish.

TEACHING ASSISTANT
(7-Semesters, 2013-2017)

CIS 262 Automata, Complexity (x3)

CIS 240 Intro to Computer Systems

CIS 350 Software Engineering

CIS 160 Math Foundation of CS (x2)

ACTIVITIES

Tutor for CIS 262

International Mentor (2013-2016) provide guidance to incoming international students throughout the whole year.

Running

CS Theory Courses
Advanced Algorithms, Cryptography, Automata, Complexity, Randomized Algorithms, Quantum Computer Science, Theory of Computation, Advanced topics in Algorithmic Game Theory, Advanced topics in Theory.

Other CS Courses
Advanced Computer Networks, Computing Systems, Software Design, Computer Architecture, Operating Systems, Artificial Intelligence, Machine Learning.

Other Theory Courses
Mathematics of Finance, Linear Algebra, Probability, Statistical Inference, Game Theory, Advanced Microeconomics, Law & Economics, Accounting, Macroeconomics, Corporate Ethics, Behavioral Economics.