

A. Pinar Ozisik

pinar@cs.umass.edu | 617-834-9209 | <http://people.cs.umass.edu/~pinar>

EDUCATION

University of Massachusetts Amherst Ph.D. in Computer Science M.S. in Computer Science	Sep. 2012 - present expected Sep. 2020 May 2016
Brandeis University B.S. in Computer Science & B.A. in Neuroscience, <i>cum laude</i>	Aug. 2007 - May 2012

RESEARCH & PROFESSIONAL EXPERIENCE

Autonomous Learning Lab, UMass Amherst May 2019 - present
Co-affiliate Amherst, MA
Advisor: Philip S. Thomas

Cryptoeconomics Lab, UMass Amherst Sep. 2013 - present
Research Assistant Amherst, MA
Advisor: Brian N. Levine

Systems & Technology Research Jun. 2015 - Aug. 2015
Research Intern at Analysis and Decision Systems Group Woburn, MA
Supervisor: Kirill Trapeznikov

- Implemented Bayesian parametric and non-parametric models on Twitter for community detection and topic modeling

BINDS Lab, UMass Amherst Apr. 2013 - Aug. 2013
Research Assistant Amherst, MA
Advisor: Hava Siegelmann

DEMO Lab, Brandeis University Sep. 2011 - May 2012
Undergraduate Researcher Waltham, MA
Advisors: Kyle I. S. Harrington & Jordan Pollack

Center for Embedded Networked Sensing, UCLA Jun. 2011 - Aug. 2011
REU Student Los Angeles, CA
Advisors: Nabil Hajj Chehade & Greg Pottie

PUBLICATIONS

- **Graphene: Efficient Interactive Set Reconciliation Applied to Blockchain Propagation.**
A. Pinar Ozisik, Brian Levine, George Bissias, Gavin Andresen, Darren Tapp, and Sunny Katkuri.
In *SIGCOMM*, August 2019.
- **Graphene: A New Protocol for Block Propagation Using Set Reconciliation.**
A. Pinar Ozisik, Gavin Andresen, George Bissias, Amir Houmansadr, and Brian N. Levine. In *International Workshop on Cryptocurrencies and Blockchain Technology*, September 2017.

- **Sybil-Resistant Mixing for Bitcoin.**
George Bissias, **A. Pinar Ozisik**, Brian N. Levine, and Marc Liberatore. In *Proc. ACM Workshop on Privacy in the Electronic Society*, November 2014.
- **The Effect of Tags on the Evolution of Honest Signaling.**
A. Pinar Ozisik and Kyle I. Harrington. In *Proceedings of the Genetic and Evolutionary Computation Conference Companion*, July 2012.
- **The Effects of Finite Populations and Selection on the Emergence of Signaling.**
Kyle I. Harrington, **A. Pinar Ozisik**, and Jordan Pollack. In *Proceedings of Artificial Life XIII*, July 2012.
- **Detecting Stumbles with a Single Accelerometer.**
Nabil Hajj Chehade, **A. Pinar Ozisik**, James N. Gomez, Fabio Ramos, and Gregory J. Pottie. In *International Conference of the IEEE Engineering in Medicine & Biology Society*, August 2012.

HONORS & AWARDS

- Dissertation Writing Fellowship, 2020
- RSA Conference Security Scholar, 2019
- Grace Hopper Conference Scholarship Grant (21% acceptance), 2015
- EMC CRA-W Grad Cohort Scholarship Award, 2014
- Google Anita Borg Scholar (now called Google's Women Techmakers Scholarship), 2013
- **Travel Grants:** ACM SIGCOMM Travel Grant (2019), CS Women's Travel Grant (2019), UMass CS Dept. Travel Grant (2017), ACM CCS Travel Grant (2014)

TECHNICAL SKILLS

Computer Languages:	Java, Python, Lisp
Data Analysis:	Matlab, R
Tools:	SQL, git, Eclipse, LaTeX, Emacs

COURSEWORK

- | | |
|---------------------------|-----------------------|
| · Machine Learning | · Neural Networks |
| · Artificial Intelligence | · Advanced Algorithms |
| · Reinforcement Learning | · Computation Theory |
| · Computer Vision | · Computer Networking |

ADDITIONAL COURSEWORK

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|--|---------------------------------------|
| Complex Systems Summer School, Santa Fe Institute
<i>Complex Systems Scholar</i> | Jun. 2016 - July 2016
Santa Fe, NM |
| · Four-week introduction to complex behavior in mathematical, physical, living, and social systems | |

TEACHING

- | | |
|---|-----------------------|
| College of Information and Computer Sciences, UMass Amherst
<i>Instructor</i> | Sep. 2019 - Dec. 2019 |
| · Computer Science Brain Teasers | |

College of Information and Computer Sciences, UMass Amherst

Sep. 2018 - Dec. 2018

Instructor

- Ethical Issues in Technology

College of Information and Computer Sciences, UMass Amherst

Sep. 2012 - May 2020

Teaching Assistant

- Secure and Distributed Systems
- Using Data Structures
- Computer Literacy
- Introduction to Programming
- Introduction to Problem Solving with the Internet
- Programming with Data Structures
- Introduction to Problem Solving with Computers
- Representing, Storing and Retrieving Information
- Reasoning Under Uncertainty

Computer Science Department, Brandeis University

Sep. 2010 - May 2011

Teaching Assistant

- Data Structures and the Fundamentals of Computing
- Programming in Java and C