D Ellis Hershkowitz

dellishershkowitz@gmail.com

EDUCATION

Carnegie Mellon University — Pittsburgh, PA
  Ph.D. Computer Science, Advised by Bernhard Hauepler — *Fall 2016-*

Brown University — Providence, RI
  M.S. Computer Science — *Class of 2016*
    - GPA: 4.0

  B.A. Computer Science, Honors Recipient; B.A. Philosophy — *Class of 2015*
    - GPA: 4.0

RESEARCH INTERESTS

I study the theoretical side of distributed systems. Specifically I work on noise-resilient algorithms for peer-to-peer distributed systems that optimize along several parameters. In the past I have worked on: noisy variants of the radio broadcast model; simultaneously round- and message-optimal distributed graph algorithms; and models of distributed computation that optimize for the total amount of computation performed.

PUBLICATIONS

Interpolating Between Two Stage Stochastic and Demand-Robust Optimization
  With: Sahil Singla, R Ravi.
  Working Paper.

A Computational Perspective on Organization Management
  With: Bernhard Haeupler, Anson Kahng, Ariel Procaccia.
  Working Paper.

Erasure Correction for Noisy Radio Networks
  With: Keren Censor-Hillel, Bernhard Haeupler, Goran Zuzic.
  Preprint (in submission).

Round- and Message-Optimal Distributed Graph Algorithms
  With: Bernhard Haepler, David Wajc.
  Principles of Distributed Computing (PODC) 2018.

Broadcasting in Noisy Radio Networks
  With: Keren Censor-Hillel, Bernhard Haeupler, Goran Zuzic.
  Principles of Distributed Computing (PODC) 2017.

Near Optimal Behavior via Approximate State Abstraction
  With: David Abel, Michael Littman.
  International Conference on Machine Learning (ICML) 2016.

Goal-based Action Priors
  With: David Abel, . . . , Stefanie Tellex.
  Int'nl Conference on Automated Planning and Scheduling (ICAPS) 2015.

RESEARCH EXPERIENCE

Carnegie Mellon University, Prof. Bernhard Haeupler Pittsburgh, PA
   Ph.D. Research *Fall 2016-*
Brown University Reinforcement Learning Group, Prof. Michael Littman Providence, RI
   Master's Research *Fall 2015-Fall 2016*
Brown University Humans to Robots Lab, Prof. Stefanie Tellex Providence, RI
   Undergraduate Research *Spring 2014-Fall 2016*
National Institutes of Health Bethesda, MD
   Summer Research Intern, Section on Integrative Neuroimaging *Summer 2013*
   Summer Research Intern, Molecular Genetics Unit *Summers 2010, 2012*

INDUSTRY EXPERIENCE

Google Inc. Mountain View, CA
   Software Engineering Intern, Apps Discovery Team *Summer 2015*
Chai Energy Los Angeles, CA
   Backend Data Analyst (part time) *Spring 2014-Fall 2014*

TEACHING EXPERIENCE

Carnegie Mellon Computer Science Department Pittsburgh, PA
   Graduate Teaching Assistant, Graduate Complexity Theory (15-855) *Fall 2017*
   Graduate Teaching Assistant, Undergraduate Complexity (15-455) *Spring 2017*
Brown University Department of Computer Science Providence, RI
   Teaching Assistant, Introduction for Non-Majors (CS8) *Spring 2016*
   Teaching Assistant, Artificial Intelligence (CS141) *Fall 2014*
   Teaching Assistant, Integrated Intro to CS (CS17, CS18) *Fall 2013, Spring 2014*

AWARDS

NSF GRFP Honorable Mention 2016

Elected "Great Teaching Assistant" by department peers for Artificial Intelligence

Brown Computer Science Undergraduate Honors Degree

Magna Cum Laude 2015 (highest university honors)

Sigma Xi 2015

Professional Service

Ran CMU's Theory Lunch Fall 2017-Spring 2018

Reviewed Papers For: STACS 2018; DISC 2018.