Iden Kalemaj
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RESEARCH INTERESTS

Broadly, I am interested in the design and analysis of algorithms. Recently, my focus is on differentially private algorithms for releasing statistics on graph/network data. My previous work studied sublinear-time algorithms for large input objects.

SKILLS

Python, Keras API for TensorFlow, R and R Shiny, Java

EDUCATION

Ph.D. Computer Science (2nd year), Boston University 2019 - Present
  Supervised by Dr. Sofya Raskhodnikova
  Coursework: differential privacy, machine learning, optimization, randomized algorithms
  GPA: 3.9

B. A. Mathematics, Princeton University 2014 - 2018
  Certificate in Computer Science
  GPA: 3.8

RESEARCH AND PUBLICATIONS

(authors in alphabetical order per convention in theoretical computer science)

Release of Graph Connectivity Measures with Node-Differential Privacy
Iden Kalemaj, Sofya Raskhodnikova
Ongoing project.

Performatively Predicting in a Stateful World
Gavin Brown, Shlomi Hod, Iden Kalemaj
Neurips Workshop on Consequential Decision Making in Dynamic Environments, December 12, 2020. pdf, video.
Isoperimetric Inequalities for Real-Valued Functions with Applications to Monotonicity Testing
Hadley Black, Iden Kalemaj, Sofya Raskhodnikova
Submitted for publication. pdf.

Sublinear-Time Computation in the Presence of an Online Adversary
Iden Kalemaj, Sofya Raskhodnikova, Nithin Varma
Submitted for publication. pdf.

(from industry experience)

**A Critical Appraisal and Recommendations for Cost-Effectiveness Studies of Poly(ADP-Ribose) Polymerase Inhibitors in Advanced Ovarian Cancer**
Wei Gao, Dominic Muston, Matthew Monberg, Kimmie McLaurin, Robert Hettle, Elizabeth Szamreta, Elyse Swallow, Su Zhang, Iden Kalemaj, James Signorovitch, Robert Brett McQueen
PharmacoEconomics (2020).

**Cost-Effectiveness of Olaparib as a Maintenance Treatment for Women with Newly Diagnosed Advanced Ovarian Cancer and a BRCA1/2 Mutation in the United States**
Dominic Muston, Robert Hettle, Matthew Monberg, Kimmie McLaurin, Wei Gao, Elyse Swallow, James Signorovitch, Su Zhang, Iden Kalemaj, Kathleen Moore
Gynecologic Oncology (2020).

**Projection of Long-Term Overall Survival Among Patients with Newly Diagnosed Advanced Ovarian Cancer and a BRCA1/2 Mutation**
Dominic Muston, Matthew Monberg, Kimmie McLaurin, Alfred Sackeyfio, Robert Hettle, James Signorovitch, Elyse Swallow, Wei Gao, Su Zhang, Iden Kalemaj, Kathleen Moore
Gynecologic Oncology (2020).

**AWARDS**

- Dean’s Fellowship, Boston University 2019-2020
- Davis United World College Scholar 2014-2018
- TCS Women Travel Grant for STOC 2019 2019

**INDUSTRY EXPERIENCE**

**Analysis Group Inc, Boston**
Analyst, Health Economics and Outcomes Research

- Assisted with programming, data collection, and data analysis of models to evaluate cost-effectiveness of Parkinson’s and cancer drugs.
- Principal contributor to three R Shiny applications that automated various types of pharmacoeconomic analyses, with focus on front-end and UX.
TALKS AND POSTERS

Sublinear-Time Computation in the Presence of an Online Adversary
Poster at Workshop on Local Algorithms, June 2021

Performative Prediction in a Stateful World
Poster at Women in Data Science Cambridge Conference, March 2021

Isoperimetric Inequalities for Real-Valued Functions with Applications to Monotonicity Testing
Talk at Boston University Algorithms and Theory Seminar, November 2020
Talk at MIT Seminar on Sublinear and Local Algorithms, November 2020

TEACHING

Teaching Assistant, CS237 Probability in Computing Fall 2020
Grader, CS332 Theory of Computation Spring 2019

PROFESSIONAL SERVICE

Co-organizer of the Algorithms and Theory Seminar, Boston University, 2020
External reviewer for Symposium on Theory of Computation (STOC) 2020