

Iden Kalemaj

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ABOUT ME

I am a PhD student in Computer Science at Boston University working with Dr. Sofya Raskhodnikova. I work in theory and algorithms, with interests in sublinear algorithms and fairness in machine learning.

EDUCATION

- Ph.D. Computer Science** (2nd year), *Boston University*. Sept 2019
Supervised by Dr. Sofya Raskhodnikova.
Coursework: sublinear algorithms, randomized algorithms, data privacy, networks, complexity. GPA: 4.0
- B. A. Mathematics**, *Princeton University*. June 2018
Certificate in Computer Science.
GPA: 3.8

AWARDS

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

RESEARCH AND PUBLICATIONS

Isoperimetric Inequalities for Real-Valued Functions with Applications to Monotonicity Testing.

Hadley Black, Iden Kalemaj, Sofya Raskhodnikova (equal contribution)
Submitted for publication. [arXiv](#).

Performative Predictions in a Stateful World.

Gavin R. Brown, Shlomi Hod, Iden Kalemaj (equal contribution)
To appear with invited talk at Neurips Workshop on Consequential Decision Making in Dynamic Environments, December 12, 2020. [arXiv](#).

Erasure-Resilient Property Testing in the Presence of an Adaptive Adversary.

Iden Kalemaj, Sofya Raskhodnikova, Nithin Varma (equal contribution)

Manuscript in preparation.

(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). doi: 10.1007/s40273-020-00949-9.

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 159(2): 491-497, 2020.

Projection of Long-Term Overall Survival Among Patients with Newly Diagnosed Advanced Ovarian Cancer and a BRCA1/2 Mutation.

Dominic RG Muston, Matthew J Monberg, Kimmie McLaurin, Alfred Sackeyfio, Robert Hettle, James Signorovitch, Elyse Swallow, Wei Gao, Su Zhang, Iden Kalemaj, Kathleen N Moore.

Gynecologic Oncology 159, Supplement 1: 136, 2020.

Feedback Vertex Sets and Cycle Packings in Planar Subcubic Graphs.

Senior independent work supervised by Chun-Hung Liu.

EXPERIENCE

Analysis Group Inc, Boston

August 2018-July 2019

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.

TEACHING

Teaching Assistant, CS237 Probability in Computing.

Fall 2020

Grader, CS332 Theory of Computation.

Spring 2019

TALKS AND POSTERS

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.

Monotonicity Testing and Isoperimetric Inequalities for Boolean Functions.

Talk at Algorithms and Theory Seminar, Boston University, November 2019.

PROFESSIONAL SERVICE

Co-organizer of the Algorithms and Theory Seminar, Department of Computer Science, Boston University. Spring and Fall 2020.

External reviewer for STOC 2020.

SKILLS

Programming Languages: Python, R, Java, C.

Languages: German, Italian, French.