Ephraim Linder

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EDUCATION

Boston University - Boston, MA 2022 - present
PhD in Theoretical Computer Science
Advisor: Adam Smith
Focus: Sublinear Algorithms and Differential Privacy

Rutgers University - New Brunswick, NJ 2018 - 2022
B.S. in Mathematics
Major GPA: 4.0

PUBLICATIONS

[1] **Privately Evaluating Untrusted Black-Box Functions**. Ephraim Linder, Sofya Raskhodnikova, Adam Smith, Thomas Steinke. In submission, 2024.

[2] **Local Lipschitz Filters for Bounded-Range Functions**. Jane Lange, Ephraim Linder, Sofya Raskhodnikova, Arsen Vasilyan. In submission, 2023.

[3] **Average growth of Lp norms of Erdős–Szekeres polynomials**. C. Billsborough, S. Gold, E. Linder, D.S Lubinsky, J. Yu. Acta Mathematica Hungarica volume 166, pages 179-204 (2022).

WORK EXPERIENCE

Research Assistant September 2022 - present
Boston University *Boston, MA*
· Currently developing algorithms for privately releasing outputs of black box functions
· Designed two algorithms for locally reconstructing Lipschitz functions, as well as some applications to differential privacy and distance approximation

Research Assistant June - August 2021
Georgia Tech *Remote*
· Contributed to publication on the average growth of L_p norms of pure product polynomials
· Designed and implemented a dynamic programming algorithm for expanding pure product polynomials
· Presented poster on results at GaTech REU Poster session

Global Plan Team Intern June - August 2020
Johnson and Johnson *Remote*
· Analyzed supply chain data to pinpoint process bottlenecks
· Automated data analysis process for using Python
· Responsible for managing data collection from multiple branches

TEACHING

Boston University
Teaching Fellow *Boston, MA*
· Probability and Computing - Fall 2023

TECHNICAL SKILLS

Programming Languages Python, Java
Advanced Coursework Coding Theory, Differential Privacy, Cryptography,