Raphael A. Meyer

✉ ram900@nyu.edu • Second Year Ph.D. Student

Education

New York University — **Brooklyn, NY**
Ph.D. in Computer Science, 3.95 / 4.00 GPA — *2019–Present*
Advised by Prof. Christopher Musco

Purdue University — **West Lafayette, IN**
B.S. in Computer Science Honors, 3.72 / 4.00 GPA — *2015–2020*
Concentrations in Foundations of CS, Computational Science, Machine Intelligence
Minors in Math, Electrical Engineering
Completed 15 Graduate Courses

Work Experience

Teaching Assistant

Algorithmic Machine Learning and Data Science — **Brooklyn, NY**
New York University — *Fall 2020*

Introduction to Machine Learning — **Brooklyn, NY**
New York University — *Spring 2020*

Introduction to Algorithmic Analysis — **West Lafayette, IN**
Purdue University — *Fall 2018*

Undergraduate Research Assistant

Theoretical Machine Learning — **West Lafayette, IN**
Purdue University — *2018-2019*

Information-Theoretic Cryptography — **West Lafayette, IN**
Purdue University — *2016-2018*

Internships

Software Engineering Intern — **New York, NY**
Bloomberg L.P. — *Summer 2017*
- Recognized, Tested, and Proved Inefficiencies with Existing Distributed Scheduler
- Integrated New Service to Observe System Load and be able to Learn Smart Solutions
- Cleared Technical Debt by Resolving bugs, Collecting Metrics, Automating Workflows

Software Engineering Intern — **New York, NY**
Bloomberg L.P. — *Summer 2016*
- Integrated various Database, PubSub, and API platforms to provide a new format of data
- Iteratively designed to guarantee the API we produce matches Client Expectations
- Learned to code Effective, Maintainable, and Production-Worthy code

Honors and Awards

Student Travel Grant: ICML Conference	*2019*
Finalist: CRA Outstanding Undergraduate Research Award	*2018*
Student Travel Grant: ISIT Conference	*2017*
Outstanding Sophomore of the Year: Purdue Computer Science	*2016–2017*
Silver Medal, Giant Slalom: Ecole de Ski Français	*2016*
Qualcomm Rookie Team of the Year: Boilermake Hackathon	*2015*
Top Ten Hacks: Boilermake Hackathon	*2015*
Certificate of Cuisine: Cordon Blue School of Gourmet Cuisine	*2015*

Service

Conference External Reviewer: ISIT Conference	*2017*

Talks & Presentations

The Statistical Cost of Robust Kernel Hyperparameter Tuning	**Virtual**
[4] Poster at NeurIPS Conference	*2020*
Statistical Efficiency of Optimal Kernel Sum Classifiers	**Long Beach, CA**
[2] Presentation, Poster at ICML Conference	*2019*
Statistical Efficiency of Optimal Kernel Sum Classifiers	**Long Beach, CA**
[2] Poster at Midwest Theory Day	*2019*
Optimal Secure OR Evaluation	**Aachen, Germany**
[1] Presentation at ISIT Conference	*2017*

Publications

[1] "**Characterizing optimal security and round-complexity for secure OR evaluation**". By Amisha Jhanji, Hemanta K Maji, and Raphael A. Meyer. *IEEE International Symposium on Information Theory (ISIT)*. IEEE. 2017.

[2] "**Optimality Implies Kernel Sum Classifiers are Statistically Efficient**". By Raphael A. Meyer and Jean Honorio. *International Conference on Machine Learning (ICML)*. 2019.

[3] "**Hutch++: Optimal Stochastic Trace Estimation**". By Raphael A. Meyer, Cameron Musco, Christopher Musco, and David P Woodruff. *SIAM Symposium on Simplicity in Algorithms (SOSA)* (2021).

[4] "**The Statistical Cost of Robust Kernel Hyperparameter Tuning**". By Raphael A. Meyer and Christopher Musco. *Conference on Neural Information Processing Systems (NeurIPS)* (2020).