Taisuke Yasuda

Curriculum Vitae

yasuda.taisuke1@gmail.com • https://taisukeyasuda.github.io

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Experience

Akuna Capital   Chicago, IL
- Junior Quantitative Trader, August 2019 – Present

Education

Carnegie Mellon University   Pittsburgh, PA
- M.S. in Mathematical Sciences, August 2017 – May 2019
- Advisor: Ian Tice
- Thesis: *Asymptotic Stability of the Faraday Wave Problem*

Carnegie Mellon University   Pittsburgh, PA
- B.S. in Mathematical Sciences, August 2015 – May 2019
- Additional Major in Computer Science
- GPA: 3.82/4.00

Research Publications

[1] Manuel Fernández V, David P. Woodruff, and Taisuke Yasuda. Graph Spanners in the Message-Passing Model. To appear in *Proceedings of the 11th Innovations in Theoretical Computer Science (ITCS)*.

[2] David Altizio, Ian Tice, Xinyu Wu, and Taisuke Yasuda. The Nonlinear Stability Regime of the Viscous Faraday Wave Problem. To appear in *Quart. Appl. Math.*

[3] Manuel Fernández V, David P. Woodruff, and Taisuke Yasuda. The Query Complexity of Mastermind with ℓ_p Distances. In *Proceedings of the 22nd International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX)*, September 2019.

[4] Manuel Fernández V, David P. Woodruff, and Taisuke Yasuda. Tight Kernel Query Complexity of Kernel Ridge Regression and Kernel k-means Clustering. In *Proceedings of the 36th International Conference on Machine Learning (ICML)*, June 2019.

Selected Coursework

Computer Science (graduate level): Coding Theory, Advanced Algorithms, Machine Learning on Large Datasets, Algorithms for Big Data, A Theorist's Toolkit

Mathematics (graduate level): Advanced Real Analysis, Probability with Martingales, Measure Theory, Discrete Mathematics, Classical Partial Differential Equations, Complex Analysis

Teaching

Spring 2019	Algorithms (15-451)	TA
Spring 2019	Concepts of Mathematics (21-127)	TA
Fall 2018	Linear Algebra (21-241)	TA
Spring 2018	Principles of Real Analysis II (21-356)	grader
Fall 2016	Putnam Seminar (21-295)	grader

Talks and Presentations

- Tight kernel query complexity of kernel ridge regression and kernel k-means clustering
  - ICML, June 2019
  - CMU Meeting of the Minds, May 2019
- How it's made: lower bounds for randomized algorithms
  - CMU Summer Math Seminar, July 2018

Honors and Awards

Mar 2018	Top 207	Putnam Mathematical Competition
Mar 2017	Top 500	Putnam Mathematical Competition
Feb 2017		Undergraduate Research Fellowship in Computational Neuroscience
Feb 2016	Top 3	TartanHacks 2016
Feb 2016	Winner	All University Orchestra Concerto Competition
May 2015		Carnegie Scholarship
Mar 2015	2nd place	Pathfinder Scholarship in Mathematics

Professional Service

- Conference subreviewer for SODA 2020, ITCS 2020