

R. TEAL WITTER

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EDUCATION

NYU Tandon

PhD in Computer Science

September 2020 - Present

Dean's PhD Fellowship

Middlebury College

BA in Mathematics

BA in Computer Science

February 2017 - May 2020

Summa Cum Laude

Phi Beta Kappa

NATIONAL AWARDS

NSF Graduate Research Fellow

2022

[Fulbright Scholar](#) (I declined due to COVID)

2020

[Goldwater Scholar](#)

2019

[Academic All-American](#) (National Speech and Debate Association)

2015

PEER-REVIEWED CONFERENCE PROCEEDINGS

Note: As is the tradition in theoretical computer science, authors are ordered alphabetically by last name unless otherwise noted with an asterisk.

Christopher Musco, Indu Ramesh, Johan Ugander, R. Teal Witter. [How to Quantify Polarization in Models of Opinion Dynamics](#). *17th International Workshop on Mining and Learning with Graphs (MLG 2022)*.

R. Teal Witter. [Backgammon is Hard](#). *15th International Conference on Combinatorial Optimization and Applications (COCOA 2021)*.

Shelby Kimmel, R. Teal Witter. [A Query-Efficient Quantum Algorithm for Maximum Matching on General Graphs](#). *17th Algorithms and Data Structures Symposium (WADS 2021)*.

R. Teal Witter, Alex Lyford.* [Applications of Graph Theory and Probability in the Board Game Ticket to Ride](#). *15th International Conference on the Foundations of Digital Games (FDG 2020)*.

Kai DeLorenzo, Shelby Kimmel, R. Teal Witter. [Applications of the Quantum Algorithm for *st*-Connectivity](#). *14th Conference on the Theory of Quantum Computation, Communication and Cryptography (TQC 2019)*.

TEACHING

Algorithmic Machine Learning and Data Science (NYU CS-GY 6763)

Course Assistant

Fall 2021, Spring 2022

Machine Learning (NYU CS-GY 6923)

Course Assistant

Spring 2021

TALKS

How to Quantify Polarization in Models of Opinion Dynamics

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|---|----------------|
| International Workshop on Mining and Learning with Graphs | August 2022 |
| A Local Search Algorithm for the Min-Sum Submodular Cover Problem | |
| International Symposium on Artificial Intelligence and Mathematics | January 2022 |
| Backgammon is Hard | |
| International Conference on Combinatorial Optimization and Applications | December 2021 |
| A Query-Efficient Quantum Algorithm for Maximum Matching on General Graphs | |
| Algorithms and Data Structures Symposium | August 2021 |
| Applications of Graph Theory and Probability in the Board Game <i>Ticket to Ride</i> | |
| International Conference on the Foundations of Digital Games | September 2020 |
| MAA Contributed Paper Session at the Joint Mathematics Meetings | January 2020 |
| Applications of the Quantum Algorithm for <i>st</i>-Connectivity | |
| Conference on the Theory of Quantum Computation, Communication and Cryptography | June 2019 |

SERVICE

I have reviewed papers for the following conferences: QIP 2022, ICALP 2022, TQC 2022.

I run a weekly coding session at Brooklyn International High School. Spring 2021 - Present