

R. TEAL WITTER

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EDUCATION

NYU Tandon	<i>September 2020 - Present</i>
Ph.D. in Computer Science	
Middlebury College	<i>February 2017 - May 2020</i>
B.A. in Computer Science	Phi Beta Kappa
B.A. in Mathematics	

RESEARCH INTERESTS

Algorithm, query models, convex optimization, graph theory, probability, stochastic processes, quantum algorithms

NATIONAL AWARDS

Fulbright Scholar (prevented by COVID)	2020
Goldwater Scholar	2019
Academic All-American (National Speech and Debate Association)	2016

PEER-REVIEWED CONFERENCE PROCEEDINGS

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

Kai DeLorenzo, Shelby Kimmel, R. Teal Witter. (2019). [Applications of the Quantum Algorithm for st-Connectivity](#). *14th Conference on the Theory of Quantum Computation, Communication and Cryptography*, vol 135, pp 6:1-14.

TALKS

[Applications of Graph Theory and Probability in the Board Game *Ticket to Ride*](#). *MAA Contributed Paper Session at the Joint Mathematics Meetings*, January 16, 2020, Denver, CO.

[Applications of the Quantum Algorithm for st-Connectivity](#). *Conference on the Theory of Quantum Computation, Communication and Cryptography*, June 3, 2019, College Park, MD.

SELECTED TECHNICAL WORK

Quantum Query Optimizer	Fall 2019
On the Cover Times of Random Walks	Spring 2019

TEACHING

For each class, I tutored weekly two-hour drop-in sessions.

Algorithms & Complexity	Spring 2020
Combinatorics	Spring 2020
Quantum Computing	Fall 2019

Probability	Fall 2019
Data Structures	Spring 2019
Calculus (I, II, and III)	Spring 2019
Linear Algebra	Fall 2018
Math Foundations	Spring, Fall 2018

SERVICE

I received the [2018-19 Outstanding Leader of a Student Organization](#) award for my campus leadership.

President, Treasurer of Middle Endian Computer Science	6 Semesters
Co-Chair of the Math Student Advisory Council	6 Semesters
Treasurer of the Debate Society	3 Semesters
Treasurer of Hillel	2 Semesters