

Colin Fan

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Education

2018–2022 **B.S. Mathematics**, *Rutgers University*, New Brunswick, NJ.

Summer 2019 **Budapest Semesters in Mathematics**.

2017-2018 **High School Scholars Program**, *Middlesex County College*, Edison, NJ.

Interests

Complex analysis and complex geometry.

Projects

Fall 2021 **Independent Study**, *Topic: Commutative Algebra and Schemes*, Mentor: Charles Weibel.

Summer 2021 **REU, University of Michigan–Dearborn**, *Topic: Spectral Theory and CR Geometry*, Mentor: Yunus E. Zeytuncu.

Spring 2021 **Independent Study**, *Topic: Functional Analysis*, Mentor: Michael Beals.

Summer 2020 **REU, Center for Discrete Mathematics and Theoretical Computer Science (DIMACS)**, *Topic: Experiments with Pants Covers of the Modular Surface*, Mentors: Jeremy Kahn and Alex Kontorovich.

Fall 2019 **Independent Study**, *Topic: The Hyperbolic Metric in Complex Analysis*, Mentor: Purvi Gupta.

Awards

2021 **Tilla Weinstein Award**, *For exceptional achievement in mathematics*, \$300.

2021 **Weill Scholarship**, *Gift of Adrienne and Maurice Weill. Awarded to full-time students majoring in mathematics based on academic merit*, \$1600.

2019 **David Martin Weiss Memorial Award**, *Awarded to a first-year student from a New Brunswick College other than Douglass Residential College who has done exceptional work in mathematics*.

Publications

1. *A Tauberian Approach to an Analog of Weyl's law for the Kohn Laplacian on Compact Heisenberg Manifolds*, with Elena Kim, and Yunus E. Zeytuncu – submitted, 2021.

Invited Talks

- AMS Joint Mathematics Meeting, New Problems in Several Complex Variables, Seattle, 2022, *Weyl's law on Compact Heisenberg Manifolds*.

Grading

Spring 2021 Math 451: Abstract Algebra II.

Spring 2020 Math 350: Linear Algebra.

Service

President (2020-22) and Board Member (2019-20), *Rutgers Undergraduate Mathematics Association (RUMA)*.

2019-22 **Organizer**, *RUMA Lecture Series*.

Fall '19, **Organizer & Panelist**, *Math Major Q&A Panel*.
'20, '21

Fall 2020 **Organizer**, *REU Q&A Panel (joint with the AWM Student Chapter at Rutgers University)*.

Other

Citizenship U.S. & Canada.