

CURRICULUM VITAE
MIRIAM (MIRA) GORDIN
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EDUCATION

Ph.D. in Applied and Computational Mathematics

Expected May 2025

Princeton University

NSF Graduate Fellow

Advisor: Ramon van Handel

Sc.B. with Honors in Applied Mathematics

2020

Brown University

Honors Thesis: “Locally Interacting Markov Chains on Heterogeneous and Random Graphs”

Advisor: Kavita Ramanan

INVITED TALKS

- 2024 *Vector-Valued Concentration on the Symmetric Group*, Dual Trimester Program: “Boolean Analysis in Computer Science”, Hausdorff Institute, Bonn.
 Vector-Valued Concentration on the Symmetric Group, Probability and Analysis Webinar (online).
 What is Bakry-Emery Curvature?, “What is . . . ?” Seminar, Institute for Advanced Study, Princeton.
 Vector-Valued Concentration on the Symmetric Group, Hausdorff Institute Trimester Seminar, Bonn.
 Vector-Valued Concentration on the Symmetric Group, PACM Colloquium, Princeton University.
 Vector-Valued Concentration on the Symmetric Group, Analysis Seminar, Stony Brook University.
- 2023 *Vector-Valued Concentration on the Symmetric Group*, Probability Seminar, Lehigh University.
 Vector-Valued Concentration on the Symmetric Group, Northeast Probability Seminar, NYU.
- 2021 *Locally Interacting Markov Chains on Random and Heterogeneous Graphs*, PACM Graduate Student Seminar, Princeton University.
- 2020 *Locally Interacting Markov Chains on Random and Heterogeneous Graphs*, Honors Thesis Presentation, Brown University.
- 2018 *Matrix Models for the Circular β Ensemble and Non-Hermitian Anderson Operators*, Probability Seminar, Brown University.

AWARDS & FELLOWSHIPS

- 2020 National Science Foundation Graduate Research Fellowship
- 2020 Ron Truell Premium Prize, Division of Applied Mathematics, Brown University
- 2019 Karen T. Romer Undergraduate Teaching and Research Award
- 2019 Phi Beta Kappa Honor Society
- 2018 MAA Outstanding Student Paper Session Presentation Award
- 2016 Hartshorn-Hypatia Examination for Excellence in Preparatory Mathematics (1st prize)

PUBLICATIONS

B. Verwaaijen, D. Wibberg, J. Nelkner, M. Gordin, O. Rupp, A. Winkler, A. Bremges, J. Blom, R. Grosch, A. Pühler, A. Schlüter, Assembly of the *Lactuca sativa*, *L. cv. Tizian* draft genome sequence reveals differences within major resistance complex 1 as compared to the cv. *Salinas* reference genome, *Journal of Biotechnology*, Volume 267, 10 February 2018, Pages 12-18, ISSN 0168-1656. [\[link\]](#)

LEADERSHIP & OUTREACH

2021– 2023 Noetherian Ring Seminar Organizer, Princeton
 2020 – 2021 Graduate Student Seminar Organizer, Princeton PACM
 2020 – Peer Math Advising, Princeton University
 2020 – Mentoring Möbius, Princeton University
 2020 – 2021 STEM Women’s Leadership Council, Princeton University
 2016 – 2020 Association for Women in Mathematics, Undergraduate President, Brown University

PAST RESEARCH EXPERIENCE

Undergraduate Research Award	Brown University
Advised by: Kavita Ramanan	Summer 2019
Project title: <i>Markov Chains on Large Sparse Networks</i>	
SMALL REU Program	Williams College
Advised by: Mihai Stoiciu	Summer 2018
Project title: <i>Spectral Properties of Non-Hermitian Anderson Operators</i>	
Nerreti Lab	Brown University
Advised by: Nicola Neretti	Summer 2017
Center for Biotechnology (CeBiTec)	University of Bielefeld
Advised by: Bart Verwaaijen	Summer 2016
Plant Biochemistry and Physiology Research Group	University of Bielefeld
Advised by: Karl-Josef Dietz	Summer 2015

TEACHING

Spring 2024, Assistant in Instruction, Multivariable Calculus for Economics/Life Sciences.
 Fall 2022, Volunteer Teacher, Probability, Momentum 4 Ukraine, Princeton.
 Fall 2018, Teaching Assistant, Accelerated Introduction to Computer Science, Brown University.
 Fall 2017, Teaching Assistant, Ordinary Differential Equations, Brown University.
 Fall 2017, Volunteer Teaching Assistant, Data-centric Intro to Programming, (*course for students from University of Puerto Rico displaced by Hurricane Maria*), Brown University.