

CURRICULUM VITAE  
MIRIAM (MIRA) GORDIN  
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EDUCATION

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**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

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- 2024     *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 Heterogenous Graphs*, PACM Graduate Student  
          Seminar, Princeton University.
- 2020     *Locally Interacting Markov Chains on Random and Heterogenous Graphs*, Honors Thesis Presenta-  
          tion, Brown University.
- 2018     *Matrix Models for the Circular  $\beta$  Ensemble and Non-Hermitian Anderson Operators*, Probability  
          Seminar, Brown University.

AWARDS & FELLOWSHIPS

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- 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

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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

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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

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

## TEACHING

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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.