# CURRICULUM VITAE MIRIAM (MIRA) GORDIN

miriam\_gordin@brown.edu

#### EDUCATION

Brown University	Providence, RI
Sc.B. Candidate, Applied Mathematics, 4.0 GPA	2016 - 2020
Princeton Summer School in Geometric Analysis	Princeton, NJ
Three-week intensive program	June 2019
University of Connecticut	Storrs, CT
Non-Degree as a high school student, 4.0 GPA	2013 - 2016
Edwin O. Smith High School	Storrs, CT
4.0  GPA	2012 - 2016

## Research Positions

## Undergraduate Teaching and Research Award (UTRA)

Summer 2019

Advised by: Prof. Kavita Ramanan

Brown University

Investigated discrete-time stochastic interacting particle systems on large sparse random graphs through theoretical work and computational simulation. Characterized marginal dynamics for opinion models on complete, cycle, and Erdos-Renyi random graphs.

#### SMALL REU Program

Williams College

Advised by: Prof. Mihai Stoiciu

Summer 2018

Collaborated with a group of undergraduate students on four projects in the field of random matrix theory, in particular non-Hermitian Anderson operators and their spectral properties, as well as matrix models for the circular  $\beta$  ensemble.

Nerreti Lab Brown University

Advised by: Prof. Nicola Neretti

Summer 2017

Computationally assessed methylation age of bisulfite-sequenced cell free DNA (cfDNA) using an elastic net regression model on CpG site methylation state.

#### Center for Biotechnology (CeBiTec)

University of Bielefeld, Germany

Advised by: Bart Verwaaijen

 $Summer\ 2016$ 

Investigated the activity of the plant pathogenic fungus  $R.\ solani$  as research member of Genome Research of Industrial Microorganisms group. Gene annotation for lettuce genome resulted in publication.

Plant Biochemistry and Physiology Research Group

University of Bielefeld, Germany

Advised by: Prof. Karl-Josef Dietz

Summer 2015

Characterized the effect of salinity stress on sugar beets, including secondary metabolites, RNA sequences, and proteins.

## TEACHING

Fall 2016 – present	LATEX Workshop Leader, Brown Science Center
Fall 2018	Teaching Assistant, Accelerated Introduction to Computer Science
Fall 2017	Teaching Assistant, Ordinary Differential Equations
Fall 2017	Volunteer Teaching Assistant, Data-Centric Introduction to Programming
	Course for students from University of Puerto Rico displaced by Hurricane Maria.

## **PUBLICATIONS**

Bart Verwaaijen, Daniel Wibberg, Johanna Nelkner, Miriam Gordin, Oliver Rupp, Anika Winkler, Andreas Bremges, Jochen Blom, Rita Grosch, Alfred Pühler, Andreas 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]

2017 Miriam Gordin. Gray Matter and Oxytocin: What Separates Men and Women. *The Triple Helix* (Brown), Fall 2017. [link]

#### AWARDS & HONORS

2019	Karen T. Romer Undergraduate Teaching and Research Award
2019	Phi Beta Kappa (inducted junior year as top $5\%$ of graduating class)
2018	Brown Mathematical Contest for Modeling (2nd Place)
2018	MAA Outstanding Student Paper Session Presentation Award
2018	MAA Student Travel Grant
2016	Hartshorn-Hypatia Examination for Excellence in Preparatory Mathematics (1st prize)
2015	AP Scholar with Distinction Award
2015	United States Biology Olympiad Semifinalist
2015	National Latin Exam (summa cum laude gold medal)

#### Presentations

#### **Talks**

January 2019 Joint Mathematics Meetings

Non-Hermitian Anderson Operators and their Spectral Properties, AMS Contributed Paper Session on Probability Theory and Stochastic Processes, Baltimore, MD.

November 2018 Ramanan Research Group Seminar

Matrix Models for the Circular  $\beta$  Ensemble and Non-Hermitian Anderson Operators, Brown University, Providence, RI.

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August 2018 MAA Mathfest

Non-Hermitian Anderson Operators and their Spectral Properties, MAA Under-

graduate Student Paper Session, Mathfest, Denver, CO.

Posters

August 2019 Undergraduate Summer Research Symposium, Brown University

Approximations of Marginal Dynamics for Voter Models on (Possibly Random)

Graphs

November 2018 Undergraduate Research Poster Session, Brown University

Non-Hermitian Anderson Operators and their Spectral Properties

August 2018 Summer Science Poster Presentation, Williams College

Non-Hermitian Anderson Operators and their Spectral Properties

**Panels** 

April 2019 AWM Graduate School Panel (Moderator) Brown University
February 2019 Women in Computer Science Summer Opportunities Panel Brown University
November 2018 AWM Undergraduate Research Panel Brown University
September 2018 Women in Computer Science Introductory Courses Panel Brown University
July 2018 Math Camp for High School Students Williams College

#### LEADERSHIP & OUTREACH

Fall 2016 – present Brown Student Chapter of the Association for Women in Mathematics

Undergraduate President

January 2019 Joint Mathematics Meetings, Baltimore, MD

AMS Contributed Session on Probability Theory and Stochastic Processes

Session Chair

Fall 2018 – present Brown Applied Mathematics Peer Advising

Advisor

Summer 2018 Williams College SMALL REU Program

Social Chair

Fall 2017 – Spring 2018 New Scientist Collective

Mentor

Fall 2016 – Spring 2017 The Triple Helix at Brown University

Staff Writer

Fall 2016 – present Brown Student Compost Initiative (SCRAP)

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# SKILLS

Languages English, German, Russian (fluent spoken and written)

Latin (proficient reading and translation)

Technical Mathematica, MATLAB, Bash, R, Java, C, Perl, HTML, CSS, IATEX.

Object-oriented and functional programming, dynamic programming methods.

Bioinformatic Proficient in working with BAM, FASTQ, R Bioconductor.

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# RELEVANT COURSEWORK

Spring 2020Theory of Probability II (APMA / MATH 2640, grad. level)BrownSpring 2020Introduction to Pattern Theory (APMA 1941)BrownSpring 2020Independent Study - Honors Thesis (APMA 1970)BrownFall 2010Independent Study - Honors Thesis (APMA 1971)BrownSpring 2010Hilbert Spaces / Real Function Theory (APMA 2120 / MATH 2220, grad. level)BrownSpring 2011Hilbert Spaces / Real Function Theory (APMA 2120 / MATH 2220, grad. level)BrownSpring 2012Partial Differential Equations (MATH 1120)BrownFall 2018Information Theory (APMA 1710)BrownFall 2018Complex Analysis (APMA 2110 / MATH 2210, grad. level)BrownFall 2018Complex Analysis (MATH 1260)BrownSpring 2018Recent Applications of Probability and Statistics (APMA 1740)BrownFall 2018Accelerated Introduction to Computer Science (CSC1 109)BrownFall 2011Applied Ordinary Differential Equations (APMA 1690)BrownSpring 2017Applied Ordinary Differential Equations (APMA 1690)BrownFall 2010Applied Ordinary Differential Equations (APMA 1690)BrownFall 2010Applied Ordinary Differential Equations (APMA 1690)UConnFall 2016Honors Linear Algebra (MATH 0540, proof-based)BrownFall 2016Honors Linear Algebra (MATH 2110Q)UConnFall 2016Honors Lineary Differential Equations (MATH2410Q)UConnFall 2016Multivariable Calculus (MATH2110Q)UConnFall 2016Holliviariable Calculus	Mathematics, Statistics, and Computer Science				
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2013-2014 Advanced Calculus (MATH1131Q-1132Q)  Biological & Physical Sciences  Fall 2017 Genetics (BIOL 0470) Brown Fall 2016 Equilibrium, Rate, Structure (CHEM 0330) Brown Spring 2016 Cell Biology of the Mammalian Secretory Apparatus (MCB5200, grad. level) UConn Fall 2015 Honors Cell Biology (MCB2210) UConn 2014-2015 Principles of Biology I & II (BIOL1107-1108) UConn*	Spring 2015	Elementary Differential Equations (MATH2410Q)	UConn		
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Fall 2017 Genetics (BIOL 0470) Brown Fall 2016 Equilibrium, Rate, Structure (CHEM 0330) Brown Spring 2016 Cell Biology of the Mammalian Secretory Apparatus (MCB5200, grad. level) UConn Fall 2015 Honors Cell Biology (MCB2210) UConn 2014-2015 Principles of Biology I & II (BIOL1107-1108) UConn*	2013-2014	Advanced Calculus (MATH1131Q-1132Q)	UConn*		
Fall 2016 Equilibrium, Rate, Structure (CHEM 0330) Brown Spring 2016 Cell Biology of the Mammalian Secretory Apparatus (MCB5200, grad. level) UConn Fall 2015 Honors Cell Biology (MCB2210) UConn 2014-2015 Principles of Biology I & II (BIOL1107-1108) UConn*	Biological &	2 Physical Sciences			
Spring 2016 Cell Biology of the Mammalian Secretory Apparatus (MCB5200, grad. level) UConn Fall 2015 Honors Cell Biology (MCB2210) UConn 2014-2015 Principles of Biology I & II (BIOL1107-1108) UConn*	Fall 2017	Genetics (BIOL 0470)	Brown		
Fall 2015 Honors Cell Biology (MCB2210) UConn 2014-2015 Principles of Biology I & II (BIOL1107-1108) UConn*	Fall 2016	Equilibrium, Rate, Structure (CHEM 0330)	Brown		
2014-2015 Principles of Biology I & II (BIOL1107-1108) UConn*	Spring 2016	Cell Biology of the Mammalian Secretory Apparatus (MCB5200, grad. level)	UConn		
	Fall 2015	Honors Cell Biology (MCB2210)	UConn		
2014-2015 General Physics (PHYS1201Q-1202Q) UConn*	2014-2015	Principles of Biology I & II (BIOL1107-1108)	UConn*		
	2014-2015	General Physics (PHYS1201Q-1202Q)	UConn*		

<sup>\*</sup>course credit for equivalent course taught at high school

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