

Rebecca Lauren Miller

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EDUCATION

MA Mathematics, May 2017, Saint Louis University, St. Louis, MO.

BA Mathematics, Cum Laude, May 2015, Carthage College, Kenosha, WI.

Thesis: "Harmonic Nine Crossing Knots"

Study Abroad, Summer 2014. Jewish History and Religion, Krakow, Poland

WORK EXPERIENCE

Adjunct Instructor, Lindenwood University, St. Charles, MO August 2017-Present

- Taught 05100 Basic Math and 14100 Introduction to Statistics
- Experience developing, and teaching an exclusively and partially online courses

Adult Services Provider, St. Louis Public Library, St. Louis, MO July 2017-Present

Library Technician, St. Louis Public Library, St. Louis, MO August 2016-July 2017

- Aids patrons in research, educates on research technologies and databases
- Plans lectures for patron outreach; performs community outreach

Finance Intern, Opera Theatre of St. Louis, St. Louis, MO May 2017- July 2017

- Responsible for generating reports in Abila, and reconciling accounts
- Prepared invoices for payment, entered daily cash receipts

Adjunct Instructor, Saint Louis University, St. Louis, MO July 2016 – August 2016

- Produced unique lessons and exams planned around each students level of education

Certified Optician, LensCrafters, St. Louis, MO August 2017-Present

Certified Optician, LensCrafters, St. Louis, MO August 2015-September 2016

Certified Optician, LensCrafters, Gurnee, IL January 2014-August 2015

Certified Optician, Sears Optical, Racine, WI February 2011-January 2014

- Pre-tested patients, interpret and transpose prescriptions, experience dispensing eyewear

Math Tutor, Carthage College, Kenosha, WI September 2014-May 2015

- Tutored undergraduate students in math courses through Calculus II and Linear Algebra
- Facilitated learning by presenting mathematics from multiple thought processes

Research and Development Lab Technician, DuraColor, Racine, WI February 2013-March 2015

- Utilized complex organization skills and flexibility in order to solve problems efficiently
- Completed necessary tracking and correspondence for the Department of Natural Resources
- Designed research projects, assembled and presented formal reports, maintained project log

GRANTS/ FUNDING

Student Developer, Google Summer of Code May 2017-August 2017

May 2016-August 2016

- Coding for SAGE, which is open source computational software written in python
- Designed project, wrote and tested code, completed open source peer review process

Graduate Research Assistantship, Saint Louis University, St. Louis, MO January 2017- May 2017

January 2016-May 2016

- Working under Dr. Benjamin Hutz executing research in Dynamical Systems
- Design and implement advanced mathematical algorithms as part of NSF grant *Computational Tools for Dynamical Systems*

Graduate Teaching Assistantship, Saint Louis University, St. Louis, MO August 2015-Dec. 2015

- Experience teaching and supporting students of all skill levels
- Developed unique lesson plans, group activities, tests, and homework for Finite Mathematics

PRESENTATIONS

Oral Presentation

“Knot Theory: Harmonic Nine Crossing Knots” National Conference on Undergraduate Research, Eastern Washington University, Spokane, WA April 2015

“Poetry by Number: How to be an Oulipian” Super Heroines, Etc. St. Louis, MO July 2016

“Expanding The Functionality of Moduli Space in Sage: Part I and II.” SLU Algebra Seminar. St. Louis, MO October 2016.

“Quipu and Incan Mathematics.” SLU Math/CS Club. St. Louis, MO November 2016.

“Sage: an introduction” and “TFAE: a brief History of the Axiom of Choice” Mathematical Association of America – Missouri Spring Meeting, Missouri Southern State University, Joplin, MO March 2017

“Poetry by Number: How to be an Oulipian” Saint Louis Public Library- Central Branch, St. Louis, MO April 2017

CERTIFICATIONS

American Board of Opticianry Certified 2011- Present

ART EXHIBITIONS AND PROJECTS

Wizard of Oz Series, Rhode Center for the Arts, Kenosha, WI January-February 2013

Solo Art Exhibition, Black Eyed Press, Racine, WI February-March 2012

PUBLICATIONS

Poems: “Vanity” and “Dandelion”, *Centrique* Spring 2015

Untitled Poem, *Left of the Lake* Spring 2014

Series of Wizard of OZ Paintings, *Centrique* Spring 2014

COMMUNITY OUTREACH

Volunteer, NPR St. Louis, St. Louis, MO 2016- Present

Volunteer, TEDx Gateway Arch, St. Louis, MO 2016- Present

Costume Manager and Volunteer, Rhode Center for the Arts, Kenosha, WI 2012-2015

- Designed and costumed full productions with casts ranging from 6-60

- Managed 30 volunteers for fundraising event, raised \$1,500 for renovations

Regional Captain, OneSight, Gurnee, IL 2011-2012

- Organized and participated in volunteer opportunities and events; motivated peers to meet charity goals. Assisted in providing free eye exams and glasses for 450 Milwaukee youth in need

ACTIVITIES AND HONORS

Member of Pi Mu Epsilon 2015-Present

Carthage Math Club Historian 2014-2015

Faculty Honor Scholarship, Carthage College 2014

Smeds Scholar, Carthage College 2014

Skills Familiar with Python, C++, Sage, R, Mathematica, and Maple