

# NORA CULIK

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## EDUCATION

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**Vassar College, Poughkeepsie, NY**

Expected Graduation: May 2020

- Mathematics and Statistics, BA
- Minor in French and Francophone Studies
- Minor in Creative Writing

## PUBLICATIONS

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**Journal of Humanistic Mathematics**

July 2014

[“The Physicist’s Basement”](#)

DOI: 10.5642/jhummath.201402.17

**Journal of Humanistic Mathematics**

July 2015

[“The Topology of Absence”](#)

DOI: 10.5642/jhummath.201502.22

**Journal of Humanistic Mathematics**

July 2017

[“Descartes Comes out of the Closet”](#)

DOI: 10.5642/jhummath.201702.29

**Boilerplate**

March 2018

[“An Interview with Cathy O’Neil”](#)

**Visitant Lit**

July 2019

[“geometries of spring”](#)

**Visitant Lit**

August 2019

[“apollo says goodnight”](#)

**Red Flag Poetry**

Forthcoming: January 2020

“i found spring in the maze of ice”

## RESEARCH

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**Vassar College - French Research Assistant**

2016 - 2018

*Mentor: Susan Hiner, PhD*

- Identified sources on 20th-century French Fashion.
- Organized sources for scholarly use.

**Common Sense Media - Privacy Intern**

Summer 2017

- Wrote “The Beginner’s Guide to Privacy” (forthcoming).
- Researched 100+ terms for privacy-related glossary.

- Proofread and edited 50+ privacy evaluations.
- Read and evaluated 20+ privacy policies of educational apps and websites.

**Vassar College - Ford Scholar**

Summer 2018

*Mentor: Benjamin Morin, PhD*

*Project Title: What Does a Vassar Mathematician Look Like?*

- Historical research on minority figures in Vassar's Mathematics Department.
- Wrote 6 detailed biographies.
- Wrote 5 blog posts about interesting incidental findings.
- Gathered biographical data on all math majors and did basic analysis.
- Weekly presentations on research progress.
- End-of-project presentation for Ford Scholarship donors.

**Arizona State University - Mathematical and Theoretical Biology Institute** Summer 2019

*Mentor: Karen Rios-Soto, PhD*

- Worked with group of 10 people (6 students and 4 mentors) to make a mathematical model.
- Wrote 50-page paper titled "Dynamics of Prion Proliferation Under Combined Treatment of Pharmacological Chaperones and Interferons" (seeking publication).
- Work in differential equations, numerical analysis, and technical writing.

**WORK EXPERIENCE**

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**Mathematics Tutor**

2012 - present

- Tutored extensively in elementary mathematics, Algebra I, Algebra II, and Calculus AB/BC
- Meet with students weekly to revise course material.
- Students report grade increase after tutoring.

**Vassar College - Donor Relations Student Assistant**

Fall 2016

- Organized files.
- Sent out mailings.
- Worked at several Donor Relations events.

**Vassar College - Office of Alumnae/i Affairs Web Assistant**

Summer 2017

- Managed the department's email account.
- Did basic troubleshooting with email and alumnae/i portal problems.
- Updated alumnae/i records.

**Vassar College - Paper Grader**

Fall 2017 - Spring 2019

Graded for Introduction to Number Theory, Discrete Mathematics, and Real Analysis.

**Vassar College - Mathematics Academic Intern**

Fall 2019 - Spring 2020

- Teaching Assistant for Nonlinear Dynamics and Chaos.
- Graded weekly assignments.

- Held tutoring hours for students.

## CURRENT WORK

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### Vassar College - Senior Thesis

2019 - 2020 School Year

*Mentor: Benjamin Morin, PhD*

*Thesis Title: Antibiotic Resistance of Pseudomonas Aeruginosa in Cystic Fibrosis*

- Developing system of differential equations.
- Analyzing the system numerically with MATLAB and Mathematica.
- Preparation of manuscript for submission to peer-reviewed journal.

### Vassar College - Creative Writing Thesis

2019 - 2020 School Year

*Mentor: David Means*

*Thesis Title: The Cartographer's Handbook*

A poetry collection concerning location, love, and mathematics.

## REFERENCES

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Available upon request.