

# Michael Morrow, Ph.D.

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## Objective

To obtain a position utilizing algorithm design, software development, scientific research, and Ph.D. background.

## Qualifications Summary

- Skilled with Python, SQL, algorithm design and automation
- Contributed to open-source and proprietary software
- Conducted, presented, and submitted original mathematical research
- Demonstrated collaborative leadership, communication, and organization skills

## Education

**University of Kentucky**, Kentucky, USA May 2024  
Ph.D. Mathematics

**University of Kentucky**, Kentucky, USA April 2021  
M.S. Mathematics

**Central Washington University**, Washington, USA June 2019  
B.S. Mathematics

## Related Experience

**Graduate Researcher, University of Kentucky**, Lexington, KY August 2019 - May 2024

- Conducted mathematical research and submitted academic papers to journals
- Invited to speak at several high-profile conferences
- Utilized Macaulay2, Python and Git to implement and maintain algorithms
- Contributed to the open-source mathematical software system Macaulay2

**Software Developer, Minisoft**, Snohomish, WA June 2013 - August 2013

- Paid internship
- Contributed to a terminal emulator app for iOS
- Implemented key features of legacy terminals using ObjectiveC

## Other Experience

**Graduate Teaching Assistant, University of Kentucky**, Lexington, KY August 2019 - May 2024

- Designed and taught mathematics courses at the undergraduate level
- Coordinated a team of peers as Lead TA to more efficiently teach Business Calculus
- Collaborated with colleagues and professors to optimize course logistics
- Experience teaching courses ranging from College Algebra to Multivariate Calculus and Matrix Algebra

## Related Computer Skills

Python, SQL, Bash, Git, Macaulay2, JavaScript, L<sup>A</sup>T<sub>E</sub>X, Java, C/C++, ObjectiveC

## Software

**Nametags**, a Discord bot written in Python and SQLite for managing user introductions.  
Available at [github.com/morrowmh/Nametags](https://github.com/morrowmh/Nametags).

**OIGroebnerBases.m2**, a Macaulay2 package. Available at [github.com/morrowmh/OIGroebnerBases](https://github.com/morrowmh/OIGroebnerBases).  
Also available as part of the official [Macaulay2](#) release as of version [1.23](#).