

# Michael Morrow, Ph.D.

Citizenship: USA

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## Objective

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

## Qualifications Summary

- Designed, implemented, and tested algorithms
- Contributed to open-source and proprietary software
- Conducted, presented, and submitted original mathematical research
- Demonstrated collaborative leadership, communication, and organization skills

## Education

<b>University of Kentucky</b> , Kentucky, USA Ph.D. Mathematics Advisor: Uwe Nagel	May 2024
<b>University of Kentucky</b> , Kentucky, USA M.S. Mathematics	April 2021
<b>Central Washington University</b> , Washington, USA B.S. Mathematics	June 2019

## Related Experience

<b>Graduate Researcher, University of Kentucky</b> , Lexington, KY	August 2019 - May 2024
<ul style="list-style-type: none"><li>• Conducted mathematical research and submitted academic papers to journals</li><li>• Invited to speak at several high-profile conferences</li><li>• Designed and proved correctness and termination of algorithms</li><li>• Utilized Macaulay2 and Git to implement and maintain algorithms</li><li>• Contributed to the open-source mathematical software system Macaulay2</li><li>• Organized the University of Kentucky Algebra Seminar</li></ul>	
<b>Software Developer, Minisoft</b> , Snohomish, WA	June 2013 - August 2013
<ul style="list-style-type: none"><li>• Paid internship</li><li>• Contributed to a terminal emulator app for iOS</li><li>• Implemented key features of legacy terminals using ObjectiveC</li></ul>	

## Other Experience

<b>Graduate Teaching Assistant, University of Kentucky</b> , Lexington, KY	August 2019 - May 2024
<ul style="list-style-type: none"><li>• Designed and taught mathematics courses at the undergraduate level</li><li>• Coordinated a team of peers as Lead TA to more efficiently teach Business Calculus</li><li>• Collaborated with colleagues and professors to optimize course logistics</li><li>• Experience teaching courses ranging from College Algebra to Multivariate Calculus and Matrix Algebra</li></ul>	

## Related Computer Skills

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

## Software

*OIGroebnerBases.m2*, a Macaulay2 package, 2023. 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.

*FIResolutions.m2*, a Macaulay2 package, in preparation. See [github.com/morrowmh/FIResolutions](https://github.com/morrowmh/FIResolutions).