

Eric Binnendyk

Undergraduate senior, Mathematics and Computer Science
New Mexico Institute of Mining and Technology

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Personal statement

I'm currently enrolled in an MS degree in computer science concurrent with an undergraduate double major in mathematics/computer science at New Mexico Tech. My future plan is to pursue a PhD in mathematics with a focus on computational mathematics. My goal is to ultimately work in a research lab or university, designing mathematical models for complex real-world problems.

Education

New Mexico Institute of Mining and Technology

- Fall 2020 - present MS in Computer Science, expected 5/2022
- Fall 2018 - present BS in Computer Science, expected 5/2021
- Fall 2017 - present BS in Mathematics, expected 5/2021

Research experience

- Binnendyk, Eric and Zhang, Mingji. "Improving Gauss's Method for Finding Roots of Unity by Finding Radical Expressions For Arbitrary Members Of The Cyclotomic Field and Its Extensions." 2020. Presented at the 2020 NMT Student Research Symposium.
- Binnendyk, Eric and Ramyaa, Ramyaa. "Exploration of Stable Cycles in Dynamical Systems." 2019. Presented at the 2019 NMT Student Research Symposium.

Awards and distinctions

- 2020 Goldwater Scholarship nominee
- NMT Tech Scholar (honors) - 3.95/4.0 GPA
- 167 Math/165 English GRE
- National Merit Finalist

Employment

Research assistant - NMT Human Centered Computing and Security Lab - Conducted research into named-data networking and smart grid security under the guidance of Prof. Jun Zheng. Surveyed and assessed current research and coded simulations of effective attack mitigation. (Summer 2020 - present)

Tutor - NMT Office for Student Learning - Tutored students on mathematics and computer science and oversaw test corrections. Completed extensive training to be certified by the College Reading & Learning Association. (2019-2020)

Grader - Graded assignments and tests for the NMT course Foundations of Computer Science. Maintained student records on Canvas. (Fall 2019)

Clubs and organizations

NMT Cybersecurity Club - Participate in hands-on activities in computer security, networking, and other activities while learning about the role of cybersecurity in the modern world. (2019 - present)

Other activities

Putnam Mathematical Competition - Competed in this challenging undergraduate math competition in 2018 and 2019, achieving a score in the top 12%.

In my spare time I enjoy listening to music, browsing the Internet, hiking, and developing math games.