Krishna Chebolu

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Nationality: American

Education

Incoming — Ph.D., Applied Mathematics, **University of Colorado**, Boulder, CO

2026 — M.S., Applied Mathematics, **University of Missouri**, Columbia, MO

Thesis title: *Symmetric diamond waves revisited: Existence via the Crandall–Rabinowitz theorem*
Advisor: Samuel Walsh

2024 — B.S. (summa cum laude), Mathematics, **Truman State University**, Kirksville, MO

Minor: Computer Science

Employment

University of Missouri

2024–2026 — Teaching assistant

Truman State University

2023–2024 — Assistant hall director, Ryle Hall
2022–2023 — Resident advisor, Missouri Hall
2021–2022 — Tutor, Department of Mathematics

Summer internships

2026 — **National Park Service**, Port Alsworth, AK
Front country technician, Lake Clark National Park and Preserve
Mentored by Henry Colletto
Internship via **Student Conservation Association**

2025 — **NASA Ames Research Center**, Moffett Field, CA
Research intern, Cart3D group
Mentored by Marian Nemec and Michael Aftosmis

2024 **Massachusetts Institute of Technology**, Cambridge, MA
Summer Geometry Initiative research fellow

2024 **Washington University in St. Louis**, St. Louis, MO
Computational cancer genomics research intern, Bolton Lab
Mentored by Kelly Bolton and Irenaeus Chi-Chung Chan

The Boeing Company
2022 Finance intern, Oklahoma Bombers Financial Operations, Oklahoma City, OK
2021 Finance data analysis intern, Phantom Works Estimating, St. Louis, MO

Teaching

2024–2026 **University of Missouri**

Primary instructor, *Calculus for Social and Natural Sciences*
Topics include differentiation, exponential and logarithmic functions, optimization, and integration.

Teaching assistant, *College Algebra*
Topics include: linear, quadratic, polynomial, rational, inverse, exponential, and logarithmic functions and their applications. Students will solve equations involving these functions, and systems of linear equations in two variables, as well as inequalities.

2021–2022 **Truman State University**

Tutor, *Quantitative Reasoning*
Designed to explore applications of mathematics to solve contemporary problems. It emphasizes developing analytical skills to interpret quantitative information.

Grants, honors, and scholarship awards

2025 Andrew McFarland Scholarship, University of Missouri.

2024 Symposium on Geometry Processing Travel Grant, Massachusetts Institute of Technology, Cambridge, MA.

2023 Outstanding Residence Leadership for Exceptional Service to the university community, Truman State University.

Top presenter for *Energy management instead of time management*, 35th Annual University of Northern Iowa Resident Advisor Conference, University of Northern Iowa, Cedar Falls, IA.

2021, 2022 The Boeing Company Scholarship for mathematics, Truman State University.

2021 Dr. Susan LaGrassa Scholarship for mathematics, Truman State University.

2020–2024 President's Scholarship for full tuition, Truman State University.

Talks, presentations, and interviews

Apr. 2026 *Symmetric diamond waves revisited: Existence via the Crandall–Rabinowtiz theorem*, Master's thesis defense, University of Missouri, Columbia, MO.

Aug. 2025 *Control surface deflection uncertainty quantification for low-boom acoustic signatures*, Summer Poster Session, NASA Ames Research Center, Moffett Field, CA.

Jul. 2025 *Uncertainty quantification of X-59's acoustic signature due to atmospheric conditions*, Aeronautics Talks, NASA Ames Research Center, Moffett Field, CA.

Apr. 2024 *On nonlinear time series analysis and climate variability*, American Mathematical Society Spring Sectional Meeting, University of Wisconsin-Milwaukee, Milwaukee, WI.
Abstract: meetings.ams.org/math/spring2024c.

Dec. 2023 *Foundations of nonlinear timer series analysis*, Mathematics Capstone Seminar, Truman State University.
Paper: hosted on personal website.

Apr. 2023 *Human-animal relationships in the Maasai Mara Game Reserve*, Student Research Conference, Truman State University.

Nov. 2022 *Tea Time with Sue, Season 2 Episode 4: Krishna Chebolu*, Tea Time with Sue (university podcast; interviews done by university president Dr. Susan Thomas), Truman State University, Online.
Links: YouTube.com, Spotify.com.

Apr. 2022 *Developing a Bitcoin and Gold portfolio manager*, Student Research Conference, Truman State University.

Apr. 2021 *Seeing where the real buzz is: Identifying murder hornet infestations*, Student Research Conference, Truman State University.

Service

2025–2026 Tutor, **Washington University in St. Louis Prison Education Program**, Women's Eastern Reception, Diagnostics, and Correctional Center, Vandalia, MO.

2025 Volunteer, **Summer Geometry Initiative**, Massachusetts Institute of Technology, Cambridge, MA.

2023–2024 Founding president, **South Asian Student Union**, Truman State University.

2020–2022 Senator, **Student Government**, Truman State University.

Active memberships

2025 Student member, **Society of Industrial and Applied Mathematics**.

2024 Member, **Phi Beta Kappa**.

2023 Student member, **American Mathematical Society**.

Related skills

Python, C++, LaTeX, Matlab, R, Bash/Shell scripting, MS Office, Git/Github.
Experience in high-performance computing.

Last updated: May 9, 2026