

Galileo Fries

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EDUCATION

University of Oregon, Eugene, OR

- * Vitulli Scholar 2024-25, pre-PhD student (September 2024—ongoing)

Colorado College, Colorado Springs, CO

- * Bachelor of Arts in Mathematics: May 15, 2024
 - * summa cum laude, distinction in mathematics, GPA 4.0
- * Undergraduate thesis: *Positive Steady-State Varieties of 2-Reaction Chemical Reaction Networks*, with Luis David García Puente
- * Minors in Chemistry and Spanish Language
- * Pi Mu Epsilon member as of May 2022
- * Phi Beta Kappa member as of May 2024

ACADEMIC AWARDS AND HONORS

- * 2024 Florian Cajori Prize in mathematics
- * 2024 NSF GRFP Honorable Mention
- * 2024 Pi Mu Epsilon Outstanding Speaker Award at JMM 2024
- * Colorado College Dean's List for all 8 completed semesters of coursework
- * 2023 William C. Champion prize in organic chemistry
- * 2019 college-sponsored National Merit Scholar

RESEARCH EXPERIENCE

- * Pomona Research in Mathematics Experience (PRiME) 2023 undergraduate research fellow
 - * Gathered data and proved classifications of the positive steady-state varieties of all 210 genuine at-most-bimolecular 2-species 2-reaction chemical reaction networks, working with three other undergraduate students

PRESENTATIONS

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|--------------|---|
| August 2023 | (Poster) <i>The Geometry of Small Chemical Reaction Networks</i> , MAA MathFest, Tampa Convention Center, Tampa, FL |
| January 2024 | <i>The Geometry of Small Chemical Reaction Networks</i> , Joint Mathematics Meetings, Moscone Center, San Francisco, CA |

- April 2024 (Poster) *The Geometry of Small Chemical Reaction Networks*, Nebraska Conference for Undergraduate Women in Mathematics, Embassy Suites, Lincoln, NE
- April 2024 (Poster) *Positive Steady-States of 2-Reaction Chemical Reaction Networks*, Math For All, Recreation Center at the University of Colorado Boulder, Boulder, CO

PAPERS

(submitted to *Involve* June 2024) *Positive Steady-State Varieties of Small Chemical Reaction Networks*, with Maize Curiel, Elise Farr, Julian Hutchins, and Vuong Nguyen Hoang.

SKILLS

- * Proficient in LaTeX and Microsoft Excel
- * Experience with Mathematica and Macaulay2
- * Fluent in Spanish

EMPLOYMENT

- * Peer tutor, Colorado College Quantitative Reasoning Center (August 2022—May 2024)
 - * Assisting fellow students with mathematics coursework during drop-in shifts, typically calculus and introductory proof-based courses, 2-4 hours per week
 - * Led daily homework review sessions for Abstract Algebra II class, including some introductory Galois theory, April 2023, 4-5 hours per week
 - * Led homework review sessions for Abstract Algebra I class, April 2024, 3-4 hours per week
- * Course grader, Colorado College Department of Math and Computer Science (April 2024)
 - * Graded daily homework assignments for Abstract Algebra I class, 4-5 hours per week

LEADERSHIP

- * Spirit captain, Colorado College Zenith Ultimate (August 2022—May 2024)
 - * Planning and communicating structure and strategy with coaches and captains, teaching rules in a group setting, organizing and leading team discussions on topics related to diversity, equity, and inclusion
 - * Managing team energy, resolving conflicts, and communicating with other teams' leadership at competitions