

Andy Fry

Contact Information

Whitman College
Department of Mathematics and Statistics
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Education

Colorado State University (CSU)

Advisor: Dr. Renzo Cavalieri
Doctorate of Philosophy, Mathematics August 2019 - July 2021
Moduli Spaces of Rational Graphically Stable Curves
Master of Science, Mathematics August 2015 - August 2019
Tropical Moduli Spaces of Rational Graphically Stable Curves

Western Oregon University

Bachelor of Science, Mathematics September 2011 - June 2015
Minor in Physics
Magna Cum Laude

Research Interests

Tropical Geometry, Combinatorics, Moduli Spaces, Combinatorial Algebraic Geometry, Toric Geometry, Logarithmic Geometry, Matroid Theory, Graph theory.

Positions

Whitman College Walla Walla, WA

Visiting Assistant Professor Fall 2022 - Spring 2023

Pacific University Forest Grove, OR

Visiting Assistant Professor Fall 2021 - Spring 2022

Colorado State University Fort Collins, CO

Graduate Teaching Assistant Fall 2015 - Summer 2021

Teaching Experience

Whitman College

Instructor of record for

Fall 2021 Math 225, Calculus III (2 sections)

Pacific University

Instructor of record for

Spring 2022 Math 122, College Algebra

Spring 2022 Math 125, Precalculus (2 sections)

Fall 2021 Math 125, Precalculus (2 sections)

Fall 2021 Math 226, Calculus I

Colorado State University

Instructor of record for

Non-Coordinated Courses:

Summer 2021	Math 301, Introduction to Combinatorial Theory
Summer 2020	Math 366, Abstract Algebra
Summer 2018	Math 229, Matrices and Linear Equations
Spring 2018	Math 229, Matrices and Linear Equations (2 sections)
Summer 2017	Math 229, Matrices and Linear Equations

Coordinated Courses:

Spring 2021	Math 261, Calculus for Physical Scientists III
Fall 2020	Math 261, Calculus for Physical Scientists III
Spring 2020	Math 261, Calculus for Physical Scientists III
Fall 2019	Math 261, Calculus for Physical Scientists III
Spring 2019	Math 161, Calculus for Physical Scientists II
Fall 2018	Math 261, Calculus for Physical Scientists III
Fall 2017	Math 160, Calculus for Physical Scientists I
Spring 2017	Math 160, Calculus for Physical Scientists I
Fall 2016	Math 160, Calculus for Physical Scientists I
Spring 2016	Math 155, Calculus for Biological Scientists I
Fall 2015	Math 155, Calculus for Biological Scientists I

Curriculum/Content Development

Summer 2019	College Algebra Lecture Videos
Fall 2016	Math 160 Calculus I Daily Quizzes

Papers

A. Fry, *Tropical Moduli Spaces of Rational Graphically Stable Curves*, Submitted (2022), available at arXiv:1910.00627.

A. Fry. *Moduli Spaces of Rational Graphically Stable Curves*, Dissertation, Colorado State University (2021).

Talks

Invited Talks

December 2021 *Moduli Spaces of Rational Graphically Stable Curves*, Canadian Math Society Winter Meeting, Vancouver (Online)

October 2021 *Tropical Mathematics*, Colloquium, Pacific University

January 2021 *Tropical Moduli Spaces of Rational Graphically Stable Curves*, Algebraic Geometry Seminar, The Ohio State University

Other Talks

November 2021 *Moduli Spaces of Rational Graphically Stable Curves (poster)*, Blackwell Tapia Conference 2021, Mathematical Sciences Research Institute

November 2019 *Tropical Moduli Spaces of Rational Graphically Stable Curves (poster)*, Western Algebraic Geometry Symposium, University of Utah

March 2016 *The Abelian Sandpile and its Avalanche Polynomials*, 48th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Florida Atlantic University

Greenslopes Graduate Seminar (CSU)

February 2020 *An Introduction to Tropical Geometry*
 September 2018 *Tropical Elliptic Curves*
 February 2018 *Euler's "Proof" of Fermat's Last Theorem for $n = 3$*
 September 2017 *An Introduction to Tropical Geometry*
 February 2016 *The Abelian Sandpile and its Avalanche Polynomials*

Splinter Graduate Seminar (CSU)

September 2020 *The Toric Blow-up of \mathbb{C}^2 and Log Geometry*
 February 2020 *An Example of Geometric Tropicalization*
 September 2019 *Moduli Spaces of Rational Graphically Stable Tropical Curves*
 February 2019 *The Tropical Moduli Space of Radially Aligned Curves*
 September 2018 *Tropical Elliptic Curves*
 October 2017 *Matroids for the Algebraic Geometer*

Workshops

Postdoctoral/Graduate Mentorships

May 2022 *International school on Tropical Geometry*
 Valladolid, Spain
 July 2020 *ATOM: Algebraic and Tropical Online Meetings*
 Online

Attended

August 2019 *Workshop on Algebra and Representation Theory, Held on Oregonian Grounds: Foundations in Tropical Geometry*
 University of Oregon, Eugene, OR
 August 2017 *Stockholm Master Class in Mathematics: Tropical Methods in Curve Counting and Moduli Spaces*
 Stockholm University, Stockholm, Sweden
 July 2016 *MSRI Summer Graduate School: Chip Firing and Tropical Curves*
 Mathematical Sciences Research Institute, Berkeley, CA

Memberships

Fall 2022 - Present American Mathematical Society (AMS)
 Spring 2018 - Present American Indian Science and Engineering Society (AISES)
 Fall 2015 - Summer 2021 Mathematical Association of America (MAA)

Scholarships

Winter 2020 - Present AISES Lighting the Pathway to Faculty Careers for Natives in STEM
 Mentor - Dr. Robert Megginson, Mathematics, University of Michigan

Outreach/Service

Fall 2021	Pacific Undergraduate Research Conference <i>Poster Judge</i>
Spring 2020	Little Shop of Physics Open House <i>Session Facilitator - Zome Tool Bubbles</i>
Fall 2019 - Spring 2021	Graduate Student Mentor
Fall 2019	Math JAM jr at Windsor Charter Academy Math Fair <i>Session Organizer - Zome Tool Bubbles</i>
Fall 2019	Greenslopes Graduate Seminar Co-organizer
Fall 2019	CSU Pow Wow Volunteer
Spring 2019	CSU Undergraduate Math Research Poster Session <i>Poster Judge</i>
Fall 2018 - Spring 2019	Splinter Graduate Seminar Co-organizer
Summer 2017, 2018	Northern Colorado Math Circles
Fall 2016 - 2019	CSU Math Day Volunteer