

Patrick Wynne

Department of Mathematics
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Education

Temple University <i>Bachelor of Science in Mathematics</i>	August 2012 – May 2016 Philadelphia, PA, USA
University of Colorado Boulder <i>Masters of Arts in Mathematics</i>	August 2017 – May 2020 Boulder, CO, USA
University of Colorado Boulder <i>PhD Candidate in Mathematics</i>	May 2020 – present Boulder, CO, USA

Research

My current research is in Universal Algebra, with a focus on clones, clonoids, and nilpotence of finite algebraic structures.

PhD Dissertation Research – Clonoids and Nilpotent Algebras <i>Under the supervision of Dr. Peter Mayr</i>	2020 – present University of Colorado Boulder
REU: Graphs, Quadratic Forms, and Period Maps <i>Under the supervision of Dr. Sebastian Casalaina-Martin</i>	Summer 2018 University of Colorado Boulder
REU: Links for Fiber Enforced Elastic Composites <i>Under the supervision of Dr. Yury Grabovsky</i>	May 2014 – August 2015 Temple University

Publications

Peter Mayr and Patrick Wynne – Clonoids between modules. <i>arXiv:2307.00076</i>	Submitted 2023.
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Talks

Clonoids and Nilpotent Algebras <i>Panglobal Algebra and Logic Seminar</i>	October 2023 University of Colorado Boulder, USA
Clonoids Between Abelian Groups <i>BLAST 2023</i>	May 2023 University of North Carolina Charlotte, USA
On the Number of Clonoids Between Finite Modules <i>BLAST 2022</i>	August 2022 Chapman University, California USA
Nilpotent Extensions of Mal'cev Algebras <i>Equations in Universal Algebra Research Seminar</i>	June 2022 Johannes Kepler University, Linz Austria
Clonoids Between Finite Modules <i>Workshop on General Algebra, AAA 102</i>	June 2022 University of Szeged, Hungary

On Clonoids Between Abelian Groups of Coprime Order

Workshop on General Algebra, AAA 101

June 2021

University of Novi Sad, Serbia

Some Finiteness Results in Universal Algebraic Geometry

Ulam Seminar

April 2021

University of Colorado Boulder, USA

Post's Correspondence Problem

Graduate Student Seminar

November 2020

University of Colorado Boulder, USA

Teaching

Linear Algebra Instructor

Department of Mathematics

Spring 2023

University of Colorado Boulder

- Primary instructor for a 3 credit course on systems of linear equations, matrices, vector spaces, and linear transformations.

Calculus 2 Assistant Coordinator

Department of Mathematics

Spring 2021, Fall 2021, Spring 2022

University of Colorado Boulder

- Assisted in the coordination of around 20 calculus sections.
- Created projects and activities for in-class use.
- Created guides to help Instructors and Teaching Assistants teach certain topics.
- Worked with the course coordinator to write exams.
- Ran meeting for Teaching Assistants and undergraduate Learning Assistants to prepare them for teaching recitations.

Calculus 1 Instructor

Department of Mathematics

Spring 2019, Fall 2019, Fall 2023

University of Colorado Boulder

- Primary instructor for a 5 credit calculus course on continuity, differentiation, and integration.

Calculus 2 Instructor

Department of Mathematics

Summer 2019, Spring 2020, Fall 2020, Fall 2022

University of Colorado Boulder

- Primary instructor for a 5 credit calculus course on integration, sequences, and series.

Calculus 1 Teaching Assistant

Department of Mathematics

Spring 2018, Fall 2019

University of Colorado Boulder

- Lead recitations for a calculus course on continuity, differentiation, and integration.

Calculus 2 Teaching Assistant

Department of Mathematics

Fall 2017, Fall 2018

University of Colorado Boulder

- Lead recitations for a calculus course on integration, sequences, and series.

Awards, Scholarships, & Fellowships

William N. Reinhardt Summer Fellowship

University of Colorado Boulder

2023

Richard Laver Summer Fellowship

University of Colorado Boulder

2022

Burton W. Jones Teaching Excellence Award
University of Colorado Boulder 2021

Frances C. Stribic Summer Fellowship
University of Colorado Boulder 2021

Sieglinde Talbott Haller Summer Fellowship
University of Colorado Boulder 2020

W.E. Briggs Teaching Excellence Award
University of Colorado Boulder 2018

Service

Math Department Peer Mentorship Program Mentor
University of Colorado Boulder 2023 – present

Graduate Representative to the Graduate Committee
University of Colorado Boulder 2020 – 2022