Matthew **Plante**

Curriculum Vitae

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Education

2022	**Ph.D. in Mathematics**, *University of Connecticut*, Storrs, CT
2015	**M.A. in Mathematics**, *Central Michigan University*, Mount Pleasant, MI
2012	**B.S. in Mathematics**, *Grand Valley State University*, Allendale, MI
2010	**A.S. in Mathematics**, *Alpena Community College*, Alpena, MI

Experience

11/2023–Present	**Stanford ULO Temporary Mathematics Instructor**, *Stanford University*, Stanford, CA
09/2023–Present	**Wolverine Pathways Instructor**, *University of Michigan*, Ann Arbor, MI
09/2023–Present	**Library Technician**, *Alpena Community College*, Alpena, MI
08/2022–08/2023	**Visiting Assistant Professor**, *University of Connecticut*, Storrs, CT
08/2016–08/2022	**Graduate Assistant**, *University of Connecticut*, Storrs, CT
08/2014–08/2016	**Graduate Assistant**, *Central Michigan University*, Mount Pleasant, MI

College Courses Taught

08/2014–05/2016	Central Michigan University
	MTH 105 — Intermediate Algebra (three sections)
	MTH 107 — College Algebra (three sections)
08/2016–08/2023	University of Connecticut
	Math 1131D — Calculus I Discussion (six sections)
	Math 1030 — Elementary Discrete Math (two sections)
	Math 1060 — Precalculus (two sections)
	Math 1020 — Problem Solving (three sections)
	Math 2210 — Linear Algebra (four summer sections online)
	Math 2410 — Elementary Differential Equations (ten sections - six online, four in-person)
	Math 2720W — History of Math (two sections)
	Math 2110 — Multivariable Calculus (two sections)
09/2023–present	Wolverine Pathways
	Geometry (four sections)
11/2023–present	Stanford ULO
	XM531 – Differential Equations (one section)

Scholarly Work

Rowmotion on fences, *preprint*, joint with S. Elizalde, T. Roby, and B. Sagan, (Available at arXiv:2108.12443)

Counting Anosov graphs, *Ars Combin. 141 (2018), 29-51*, joint with M. Mainkar and B. Salisbury, (Also Available at arXiv:1509.03571)

Tutoring Experience

University of Connecticut (Supervisor)
Central Michigan University (Tutor)
Alpena Community College (Tutor)

Talks, Posters, and Presentations

Summer 2024	*The whirling action on P-partitions and rowmotion on V chain-factor posets*, FPSAC'2024, Ruhr-Universität, Bochum, Germany.
Fall 2023	*The whirling action on P-partitions and rowmotion on chain-factor posets*, Combinatorics Seminar, University of Kansas, Lawrence, KS.
Fall 2022	*The whirling action on P-partitions and rowmotion on chain-factor posets*, Thesis Defense, University of Connecticut, Storrs, CT.
Fall 2021	*Periodicity and Homomesy for Whirling Proper 3-Colorings of a Graph*, BIRS - dac (Hybrid Workshop) (21w5514).
Fall 2021	*Periodicity and Homomesy for Rowmotion on Certain Posets*, Algebra Seminar, University of Connecticut, Storrs, CT.
Fall 2020	*Periodicity and Homomesy for the Vx[n] Poset and Center-Seeking Snakes*, BIRS - dac (Online Workshop) (20w5164).
Summer 2020	*Toggling Independent Sets of a Complete Graph Cross a Chain*, Oral Examinzation, University of Connecticut, Storrs, CT.
Spring 2018	*Some Explicit Examples of Homomesy*, Graduate Student Seminar, Central Michigan University, Mount Pleasant, MI.
Spring 2016	*A Brief Look at Mastermind Solving Algorithms*, Graduate Student Seminar, Central Michigan University, Mount Pleasant, MI.
Spring 2015	*Counting Anosov Graphs*, Master's Thesis Oral Defense, Central Michigan University, Mount Pleasant, MI.
Spring 2012	*A Weak Order on Ordered Set Partitions*, Michigan Chapter of the MAA and MichMATYC 88th Annual Meeting, Saginaw Valley State University, Saginaw, MI.

Professional Membership

American Mathematical Society

Computer Skills

Operating Systems	Mac OS X, Ubuntu Linux, Windows
Applications	LaTeX, SageMath, MS Excel, MS Word, Maple, SAS, R, Blackboard, Webassign
Languages	Unix, Python, C++, MS Visual Basic, TI-Basic