

Ethan R. Partida

CONTACT INFORMATION	School of Mathematics Brown University Providence, RI 02903	<i>Email:</i> ethan_partida[at]brown[dot]edu <i>Web:</i> ethanpartida.github.io
INTERESTS	Algebraic Combinatorics, Algebraic Geometry, Combinatorial Optimization	
CORE SKILLS	Python (SAGE, NumPy), Macauly2, C, Julia, Technical Writing	
EDUCATION	Brown University, Providence, Rhode Island USA Ph.D. student in Mathematics, Expected Spring 2027 University of Minnesota, Minneapolis, Minnesota USA Bachelor's degree in Mathematics, May 2022 Bachelor's degree in Computer Science, May 2022	
PAPERS	<i>Shifted and threshold matroids.</i> In preparation. <i>On the topology of conormal complexes and posets of matroids.</i> Submitted <i>Playing Cribbage with Reinforcement Learning and Minimax.</i> University of Minnesota Conservancy <i>Computing Rational Powers of Monomial Ideals.</i> <i>Journal of Symbolic Computation</i> , Volume 116, 2023	
COMMUNITY INVOLVEMENT	Brown DRP, DRP Mentor , Spring 2023-Current Brown Horizons, Reading Group Organizer , Spring 2023 OURFA ² M ² , Experiences Panel Panelist , Fall 2022 University of Minnesota, Undergraduate Mathematics Research Seminar , Organizer, Fall 2021 University of Minnesota, Mathematics Project at Minnesota , Peer Mentor, Fall 2021 University of Minnesota, SMART Learning Commons , Peer Tutor, Summer 2020-2022 University of Minnesota, North Star STEM Alliance , Member, Fall 2019-2022 Farmington School District, Paraprofessional and Volunteer , Fall 2017-2022	
AWARDS	Ronald E. McNair Scholar 3M Diversity Scholarship National Hispanic Scholarship Fund Recipient Prof. Hans H. Dalaker Mathematics Undergraduate Scholarship William H. Burgum College of Science and Engineering Scholarship MN Space Grant Recipient MAA 2021 Outstanding Student Paper Presentation JMM 2021 Honorable Mention Poster Texas State Rapid Fire Research Winner	

PRESENTATIONS

h-vectors : A tour of simplicial complexes, shellability and Stanley–Reisner theory

Brown Student Seminar, September 2022

UMN Student Combinatorics and Algebra Seminar, January 2022

Simon’s Conjecture and Decomposability

Joint Mathematics Meetings, PME Poster Session, April 2022

Texas State Graduate Expo, Five Minute Talks Session, November 2021

Young Mathematicians Conference, Student Talks, August 2021

Real Powers of Monomials Ideals

MAA Mathfest, Student Paper Session, August 2021

Brown University’s SUMS, Student Presentation, March 2021

Joint Mathematics Meetings, MAA Poster Session, January 2021

Symmetry of a Pastry: A Mathematical Investigation into the Braid Group

University of Minnesota, McNair Scholars Research Symposium, August 2020

TEACHING

Brown University Teaching Assistant

MATH 90 Calculus I, Fall 2023