

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	
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>Playing Cribbage with Reinforcement Learning and Minimax.</i> Undergraduate Research Scholarship 2022. University of Minnesota Conservancy <i>Computing Rational Powers of Monomial Ideals.</i> Polymath 2020. <i>Journal of Symbolic Computation</i> , Volume 116, 2023	
RESEARCH EXPERIENCE	Texas State REU, <i>Simon's Conjecture and Decomposability</i> , Participant, 2021 Polymath REU, <i>Monomials, Convex Bodies and Optimization</i> , Participant, 2020 McNair Scholars Program, <i>Symmetry of a Pastry: A Mathematical Investigation into the Braid Group</i> , McNair Scholar, 2020 Undergraduate Research Scholarship, <i>Playing Cribbage with Reinforcement Learning and Minimax</i> , Scholarship Recipient, 2019-2022	
COMMUNITY INVOLVEMENT	Brown DRP, DRP Mentor on Representation Theory , 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

Schuberty Schuberts: A tale of intuition before rigor
UMN Directed Reading Program, April 2022

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
BRIDGES Conference, Poster Session, June 2022
Joint Mathematics Meetings, Polymath Jr Special Session, January 2022
MAA Mathfest, Student Paper Session, August 2021
Undergraduate Math Research Seminar, April 2021
Brown University’s SUMS, Student Presentation, March 2021
Joint Mathematics Meetings, MAA Poster Session, January 2021
Undergraduate Mathematics Symposium, Poster Session, November 2020
Texas State Graduate Expo, Five Minute Talks Session, November 2020

Symmetry of a Pastry: A Mathematical Investigation into the Braid Group
University of Minnesota, McNair Scholars Research Symposium, August 2020

WORKSHOPS ATTENDED

[MaTroCom: Workshop on Matroids and Tropical Combinatorics](#), Participant, January 2023

[Mathematics Project at Minnesota](#), Participant, January 2020