

Eduardo Torres Davila

CONTACT INFORMATION	University of Minnesota Department of Mathematics	Cell: (707) 230-7500 Email: torre680@umn.edu Website: etdavila10.github.io
EDUCATION	2020 – present	University of Minnesota PhD in Mathematics
	2016 – 2020	San Diego State University BS in Applied Mathematics Minor: Computer Science
AWARDS	College of Science & Engineering Graduate Fellowship (3 years)	
PUBLICATIONS	<i>Numerical semigroups, polyhedra, and posets II: locating certain families of semigroups</i> , with Jackson Autry, Abigail Ezell, Tara Gomes, Christopher O'Neill, Christopher Preuss, & Tarang Saluja, to appear, <i>Advances in Geometry</i> . (doi)(arXiv:1912.04460)	
PREPRINTS	<i>Numerical semigroups, polyhedra, and posets III: minimal presentations and face dimension</i> , with Tara Gomes & Christopher O'Neill, submitted . (arXiv:2009.05921) <i>Visualizing the support of Kostant's weight multiplicity formula for the rank two Lie algebras</i> , with Pamela E. Harris, Marissa Loving, Juan Ramirez, Joseph Rennie, Gordon Rojas Kirby, & Fabrice O. Ulysse, submitted . (arXiv:1908.08405)	
CONFERENCES /PROGRAMS ATTENDED	Semigroups, Generating functions, and Polytopes (SGPs) Research Seminar JMM Denver, Colorado, January 2020 • Undergraduate Poster Session (Honorable Mention) Field Of Dreams Conference St. Louis, Missouri, November 2019 SACNAS National Conference Honolulu, Hawaii, October 2019 Math Alliance Facilitated Graduate Applications Process (F-GAP)	
MATHEMATICS RESEARCH EXPERIENCE	Summer 2020	<i>Funded Research in Combinatorial & Commutative Algebra.</i> Advisor: Christopher O'Neill, Department of Mathematics, San Diego State University.
	2019 – 2020	<i>Funded Research in Polyhedral Geometry.</i> Advisor: Christopher O'Neill, Department of Mathematics, San Diego State University.
	Summer 2019	<i>REU in Applied Combinatorics & Discrete Mathematics (MSRI-UP).</i> Mathematical Science Research Institute, Berkeley, CA, USA. Advisor: Pamela E. Harris, Department of Mathematics, Williams College.
	Spring 2019	<i>Research in Numerical Semigroups.</i> Advisor: Christopher O'Neill, Department of Mathematics, San Diego State University.

TALKS	San Diego State University, SGPs Research Seminar, September 2020 <i>Minimizing minimal presentations</i>
	San Diego State University, SGPs Research Seminar, March 2020 <i>Minimal presentations of Kunz posets</i>
	Mathematical Sciences Research Institute, MSRI-UP, July 2019 <i>Visualizing the support of Kostant's weight multiplicity formula for the rank two Lie algebras</i>
WRITING CONTRIBUTIONS	<i>Networking Basics for Math Undergrads</i> , with Joanne Beckford, Alex Christensen, Pamela E. Harris, Lucy Martinez, & Fabrice O. Ulysse, e-Mentoring Network in the Mathematical Sciences - connecting students and mentors. AMS Blogs. July 21, 2020.
	<i>Bank of REU/Grad Fair Questions</i> , with Pamela E. Harris & Lucy Martinez, e-Mentoring Network in the Mathematical Sciences - connecting students and mentors. AMS Blogs. January 24, 2020.
RELEVANT SKILLS	Programming: Python, Sage, C/C++, Bash, Java Languages: English, Spanish