

Juliette Newton

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Teaching Experience

- **Math 110: Business Calculus** San Francisco State University
Instructor *Spring 2023*
- **Math 198: Pre-Calculus II** San Francisco State University
Instructor *Spring 2023*
- **Math 197: Pre-Calculus I** San Francisco State University
Instructor *Fall 2023*
 - Sections ranged from 25-35 students on average, with typically teaching two sections at a time.
- **Math 107/110: Business Calculus** San Francisco State University
Instructor *Fall 2023*
 - Selected to have courses be part of the Metro College Success Program based on history of supporting underserved students.
 - Sections ranged from 25-35 students on average, with typically teaching two sections at a time.
- **Math 221: Calculus and Analytic Geometry I** University of Wisconsin
Teaching Assistant *Fall 2014/2018/2019*
 - Selected as a TA coordinator in 2018 and 2019, and was responsible for overseeing all other TA's and mentoring first year TA's.
 - Sections ranged from 25-35 students on average, with typically teaching two sections at a time.
 - Average score 4.9/5.0
- **Math 228: Wisconsin Emerging Scholars** University of Wisconsin
Instructor *Fall 2018*
 - Course providing students from underrepresented groups additional support.
 - Course had approximately 10-15 students.
 - Average score: 5.0/5.0, 100% amongst all TA's
- **Math 132: Problem Solving in Algebra, Statistics, & Probability** University of Wisconsin
Instructor *Spring 2015*
 - Course had approximately 15-25 students.
 - Responsible for all aspects of the course.
- **Inquiry Based Learning Courses** University of Michigan
Course Assistant *2012-2014*
 - Assisted with advanced undergraduate courses on topology, analysis, and probability.
 - Courses had approximately 25-35 students.
 - Facilitated inquiry based learning in the classroom, and responsible for office hours, grading, and review sessions.
- **Math 310: Explorations in Randomness** University of Michigan
Course Assistant *Winter 2014*

- Assisted facilitating inquiry based learning in the classroom.
- Responsible for office hours, grading, and review sessions.
- **Math 490: Introduction to Topology** University of Michigan
Course Assistant *Fall 2013*
 - Assisted facilitating inquiry based learning in the classroom.
 - Responsible for office hours, grading, and review sessions.
- **Math 351: Principals of Analysis** University of Michigan
Course Assistant *Winter 2013*
- **Math 105: Data, Functions, and Graphs** University of Michigan
Course Assistant *Fall 2012*

Non-Standard Teaching Activities

- **Virtual Directed Readings in Geometry** Held Virtually
Organizer *February 2021 – April 2021*
 - Created a virtual, open access, directed reading program for undergraduate students.
 - Approximately 30 students signed up for the 5-week reading group.
- **Algebraic Geometry in the Time of COVID** Held Virtually
Shepard *June 2020 – October 2020*
 - A virtual, open access introductory course in algebraic geometry.
 - Approximately 1600 registered participants.
- **Undergrad Directed Reading Program** University of Wisconsin
Mentor *January 2018 – May 2019*
 - Lead two semester long reading projects on commutative algebra and algebraic geometry.
 - Lead an undergraduate women on a two semester reading project, and provided guidance on applying for REU's and graduate school.
- **Graduate Peer Mentoring** University of Wisconsin
Mentor *September 2018 – December 2018*
 - Mentored 5 first year graduate students from minority genders, organizing monthly dinners where the mentees could discuss issues they were facing.
- **Girls Math Night Out** University of Wisconsin
Mentor *September 2018 – December 2018*
 - Lead 2 women from local high schools on a semesters long project about cryptography.
- **Madison Math Circle** University of Wisconsin
Lead Organizer *January 2016 – December 2018*
 - Lead the creation of a new outreach program, which directly visits high schools around the state of Wisconsin to better serve students from underrepresented groups.
 - Expanded the total number of students reached per year from 25 to >250.
- **Madison Math Circle** University of Wisconsin
Student Volunteer *January 2015 – December 2018*