

Claudio J. Gómez-González  
Curriculum Vitae

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Carleton College  
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**ACADEMIC EMPLOYMENT AND EDUCATION**

**Carleton College**

2021–now     Assistant Professor

**University of California, Irvine**

2020–2021     Presidential Postdoctoral Fellow

**University of Chicago**

2015–2020     Ph.D. in Mathematics  
                  Advisor: Benson Farb  
                  Second Advisor: Madhav Nori  
                  Thesis: *On the topology and arithmetic of spaces of non-degenerate maps between complex projective spaces.* <https://doi.org/10.6082/uchicago.2318>

2015–2016     M.S. in Mathematics  
                  Advisor: Benson Farb  
                  Topic Committee: Benson Farb, Victor Ginzburg, and Jesse Wolfson

**New Mexico Institute of Mining and Technology**

2011–2015     B.S. in Mathematics, *summa cum laude*.

## PUBLICATIONS

### Refereed Publications

- 2021            Gómez-González, C. and Wolfson, J. "Problems in arithmetic topology" *Research in the mathematical sciences*, v.8 23, 2021.  
<https://doi.org/10.1007/s40687-021-00264-5>
- 2020            Gómez-González, C. "Spaces of non-degenerate maps between complex projective spaces." *Research in the Mathematical Sciences*, v.7 26, 2020.  
<https://doi.org/10.1007/s40687-020-00224-5>

### Preprints

- Moduli spaces of non-degenerate linear systems. (in preparation)
- Spaces of interpolating rational functions. (in preparation)

### Other work

- 2022            #DisruptJMM, *MAA Focus*, with Carrie Diaz Eaton, William Bork, and Piper H.

## INVITED MATH TALKS

- 2022            The moduli space of linear systems on  $\mathbf{P}^1$ , *Stability in Topology, Arithmetic, and Representation Theory 2022* at the Purdue Spring AMS Sectional.
- Configuration spaces and arithmetic statistics, *IPAM Latinx in the Mathematical Sciences Conference*.
- Topology of non-degenerate functions. *Purdue Topology Seminar*.
- 2020            Stone-Weierstrass and point counting. *UWM Topology Seminar*.
- Topology of the quadratic formula. *Bowdoin Math Colloquium*, *Ithaca Math Colloquium*, and *Carleton Math Colloquium*.
- 2018            Grassmannian filtrations and the cohomology of holomorphic mapping spaces. *Midwest Regional SACNAS*.

Braids and Hilbert's 13th problem. *New Mexico Tech Math Colloquium*.

2015 Configurations and card shuffling. *New Mexico Tech Math Colloquium*.

## CAMPUS AND DEPARTMENT MATH TALKS

### Carleton College

2021 Calculus, fractals, and ways of knowing. *Winter Workshop*.

### University of California, Irvine

2021 Topology of interpolating functions. *PPFP Colloquium*.

Polynomials, braids, and us. *PPFP Colloquium*.

### University of Chicago

2019 Topology of resultants, III. *Math Colloquium*.

Fractional fractals from finding  $f$ -roots. *Graduate Seminar*.

2016 Anyons and configurations. *Graduate Seminar*.

2014 The Dirichlet problem over varieties. *REU Colloquium*.

## TEACHING HISTORY

### Carleton College

#### *College teaching*

2022 Math 100: *How Chance Changes the World (A&I)*.

Math 236: *Mathematical Structures*.

Math 342: *Abstract Algebra* (two sections).

Math 120: *Calculus 2*.

2021 Math 120: *Calculus 2* (two sections).

*Research advising*

2020–2021     *Arithmetic statistics on cubic surfaces*. Bryan Boehnke, David Krakaur, Jake Martens

**University of California, Irvine**

2021             Math 184: *History of Mathematics*.

**University of Chicago**

*High school summer enrichment*

2021             Co-Instructor. *How Chance Changes the World*, Collegiate Scholars Program.

2020             Co-Instructor. *How Chance Changes the World*, Collegiate Scholars Program.

2019             Instructor. *Fractals, Algorithms, and Us*, Collegiate Scholars Program.

2018             Co-instructor. *Functions and Topology*, Collegiate Scholars Program.

2017             Teaching Assistant. *Symmetry!* Collegiate Scholars Program.

*College advising*

2016–2020     Directed readings (for 7 students) in geometry, topology, and algebra.

Research mentor (for 6 students): Mellon Mays REU.

2015–2018     Research mentor (for 19 students): UChicago Mathematics REU.

*College teaching*

2016–2017     College Fellow for Math 257, 258, and 259 (*Honors Algebra I, II, and III*).

## **New Mexico Institute of Mining and Technology**

### *Teaching and teaching assistance*

- 2014            Lecturer. Math 581: *Introduction to Algebraic Geometry*.  
                  Head Assistant. CSE 113: *Introduction to Computer Science*.
- 2013            Teaching Assistant. CSE 113: *Introduction to Computer Science*.  
                  Teaching Assistant. CSE 122: *Algorithms and Data Structures*.

## **GRANTS AND FELLOWSHIPS**

- 2020–2021     President’s Postdoctoral Fellowship, University of California.
- 2017–2020     Graduate Research Fellowship, National Science Foundation.

## **AWARDS AND HONORS**

- 2017            Physical Sciences Teaching Prize, University of Chicago.
- 2014            Macey Scholar, New Mexico Institute of Mining and Technology.
- 2013            Tech Scholar, New Mexico Institute of Mining and Technology.  
                  Meritorious Winner, Mathematical Contest in Modeling.

## **MATHEMATICAL SERVICE**

- 2017            Referee for *Topology and its Applications*.

## **DEPARTMENTAL/UNIVERSITY SERVICE**

### **Carleton College**

- 2017–2020     Justice-Equity-Diversity-Inclusion Group, Math Department.

### **University of Chicago**

- 2017–2020     Diversity, Equity, and Inclusion Committee, Graduate Students United.

- 2019 Search Committee, Physical Sciences Dean of Students.
- 2016–2018 Dean’s Advisory Council.  
 Math Department Ombudsman.  
 Diversity Advisory Board.
- 2015 UC SACNAS.

## ACADEMIC AND OTHER SERVICE

### Positions

- 2018–2020 Co-Chair, University of Chicago Labor Council.  
 Higher Ed Program and Policy Committeeman, American Federation of Teachers.
- 2017–2020 Co-President, Graduate Students United.
- 2016–2017 Organizer, Chicago Metro Project.
- 2018–2019 Mentor (for 3 students), Association for Women in Mathematics.
- 2017–2019 Mentor, Collegiate Scholars Program.

### Panels and workshops

- 2022 A conversation on belonging. *Tour of Mathematics*, Carleton College.
- 2021 *Ethnic Studies for Educators*, panelist, Cuesta College  
*Mni Sóta Maȋoce: Dakota Homelands Workshop*, attendee, Carleton College  
 Imposter syndrome workshops, facilitator, Carleton Gender Minorities in Math and Stats (GeMMS)  
*Academia, labor, and the common good*, speaker, UAW 8265 GMM  
*Graduate student labor unions*, panelist, paraDIGMS Spring Conference

- 2019        *Organizing for militancy*, panelist, IFT Convention.  
*Organizer 2.0 Training*, organizer and trainer, AFT Academics.
- 2018        *Organizing in higher education*, presenter, AFT National Convention.  
*Activist day school*, organizer and presenter, Graduate Students United.  
*Hedge clippers*, organizer and presenter, Graduate Students United.  
*This is what a scientist looks like*, panelist, Midwest Regional SACNAS.
- 2015–2017    Imposter syndrome workshops, facilitator, for the Association for Women in Mathematics, Women in Physics, and UC SACNAS.

### **PROFESSIONAL AFFILIATIONS**

American Mathematical Society  
  
Mathematical Association of America  
  
Society for Advancing Chicanos and Native Americans in Science  
  
American Association of University Professors