

Claudio J. Gómez-González
Curriculum Vitae

(505) 977-7113
cgonzales@carleton.edu
<https://claudiojacob.com/>

Department of Mathematics
Carleton College
1 North College St.
Northfield, MN 50557

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

- 2020 Problems in arithmetic topology. *Research in the Mathematical Sciences* (2020).
<https://arxiv.org/abs/2012.15434>
- Spaces of non-degenerate maps between complex projective spaces. *Research in the Mathematical Sciences* 7, 26 (2020).
<https://doi.org/10.1007/s40687-020-00224-5>

Preprints

- 2021 Spaces of interpolating rational functions. (in preparation)
- 2021 Spaces of non-degenerate linear systems. (in preparation)

Other Publications

- Grad Organizing: Militant Unionism in the 21st Century*. (in preparation)
- 2019-now Blog on critical math pedagogy: <http://claudiojacobo.com/blog/>.

INVITED MATH TALKS

- 2021 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

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

2022 Math 236: *Mathematical Structures*.

Math 342: *Abstract Algebra*.

Math 120: *Calculus 2*.

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

University of California, Irvine

2021 Math 184: *History of Mathematics*.

University of Chicago

College teaching

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

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.

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.

New Mexico Institute of Mining and Technology

Teaching

- 2014 Lecturer. Math 581: *Introduction to Algebraic Geometry*.
- 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

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

- 2021 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.

REFERENCES

Benson Farb
5734 S University Ave
Chicago, IL 60637
farb@math.uchicago.edu
773-702-3444

Shmuel Weinberger
5734 S University Ave
Chicago, IL 60637
shmuel@math.uchicago.edu
773-702-7349

Jesse Wolfson
340 Rowland Hall
Irvine, CA 92697
wolfson@uci.edu
949-824-3151

Robert Fefferman
5734 S University Ave
Chicago, IL 60637
r-fefferman@uchicago.edu
773-702-7377

PROFESSIONAL AFFILIATIONS

American Mathematical Society

American Federation of Teachers

Society for Advancing Chicanos and Native Americans in Science

United Auto Workers