

Claudio J. Gómez-González
Curriculum Vitae

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Department of Mathematics
Carleton College
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ACADEMIC EMPLOYMENT AND EDUCATION

Carleton College

2020-now Assistant Professor

University of California, Irvine

2020-now 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 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 holomorphic maps from products of spheres. (in preparation)
- 2020 Problems in arithmetic topology. *Research in the Mathematical Sciences* (2020).
<https://arxiv.org/abs/2012.15434> (to appear)

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

University of Chicago

- 2019 Topology of resultants, III. *Math Colloquium*.
- 2019 Fractional fractals from finding f-roots. *Graduate Seminar*.
- 2016 Anyons and configurations. *Graduate Seminar*.
- 2014 The Dirichlet problem over varieties. *REU Colloquium*.

TEACHING EXPERIENCE

University of California, Irvine

2021 Math 184: *History of Mathematics*. (upcoming)

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. *Math and Power*, 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

Referee for *Topology and its Applications*.

DEPARTMENTAL/UNIVERSITY SERVICE

University of Chicago

2017-Present 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

2019 *Organizing for militancy*, panelist, IFT Convention.

Organizer 2.0 Training, organizer and trainer, AFT Academics.

REFERENCES

Benson Farb
5734 S University Ave
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Shmuel Weinberger
5734 S University Ave
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PROFESSIONAL AFFILIATIONS

American Mathematical Society

American Federation of Teachers

Mathematicians of Color Alliance

Society for Advancing Chicanos and Native Americans in Science

United Auto Workers