

LAURA G. DE MARCO

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EDUCATION

Harvard University, Cambridge, MA
Ph.D. in Mathematics, June 2002
Thesis advisor: Curtis T. McMullen
University of California, Berkeley, CA
M.A. in Mathematics, 1998
University of Virginia, Charlottesville, VA
B.A. in Mathematics and Physics, 1996

EMPLOYMENT

Professor, Harvard University, July 2020–present
Hollis Professor of Mathematicks and Natural Philosophy, July 2025–present
Director of Undergraduate Studies, 2024–2025, 2026–
Radcliffe Alumnae Professor at the Radcliffe Institute for Advanced Study, July 2020–present
Professor, Northwestern University, September 2014 – June 2020
Henry S. Noyes Professor of Mathematics, September 2019 – June 2020
Professor, University of Illinois at Chicago, August 2012 – August 2014
Associate Professor, University of Illinois at Chicago, August 2009 – August 2012
Assistant Professor, University of Illinois at Chicago, August 2007 – August 2009
Assistant Professor, University of Chicago, September 2005 – August 2007
L. E. Dickson Instructor, University of Chicago, September 2002 – August 2005

PRIMARY RESEARCH INTERESTS

Dynamical systems, Arithmetic geometry, Complex analysis. I am mainly focused on the dynamics of complex algebraic maps and their moduli spaces, studied with a combination of complex-analytic and algebraic techniques.

HONORS AND AWARDS

Radcliffe Fellowship, Radcliffe Institute for Advanced Study, 2023–2024, 2025–2026
National Academy of Sciences, elected Member, 2020–present
Fellow of the American Mathematical Society, 2012–present
Frontiers of Science Award in Mathematics, ICBS Beijing 2024
Alexanderson Award, American Institute of Mathematics, 2020
Invited Speaker, International Congress of Mathematicians, 2018
Satter Prize, American Mathematical Society, 2017
Simons Foundation Fellowship, 2015–2016
Kreeger Wolf Distinguished Visiting Professor, Northwestern University, 2013–2014
Sloan Foundation Research Fellowship, 2008–2010
NSF Career Award, 2008–2013

NSF Postdoctoral Fellowship, University of Chicago, 2003–2006

Research grants from National Science Foundation

PI, NSF Research Award DMS-2246630, 2023–2026

PI, NSF Research Award DMS-2200981, 2023–2026

PI, NSF Research Award DMS-1856103, DMS-2050037, 2019–2023

PI, NSF Research Award DMS-1302929, DMS-1517080, 2013–2016

PI, NSF Research Award DMS-1600718, 2016–2019

NSF Career Award DMS-0747936, 2008–2013

PI, NSF Research Award DMS-0600958, 2006–2009

Funding awarded for conferences and research programs

Conference, CIRM France, November 2025

Simons Symposium Series in Mathematics, Simons Foundation, 2019–2024

Conference, CIRM France, December 2023

Co-PI, NSF conference grant DMS-1952662 for *Circle at Infinity* 2022

Clay Mathematics Institute, for *Circle at Infinity* conference, 2022

Workshop, Mathematisches Forschungsinstitut Oberwolfach, 2021

Workshop, American Institute of Mathematics, 2021

BIRS Oaxaca workshop, Banff International Research Station, 2017

SQuaRE program, American Institute of Mathematics, 2016–2019

PI, Midwest Dynamical Systems Conference Grant, NSF DMS-1856176, 2019–2022

PI, Midwest Dynamical Systems Conference Grant, NSF DMS-1600654, 2016–2019

Co-PI, GROW 2017: Strengthening the Mathematical Workforce, a conference for undergraduate women in mathematics, NSF DMS-1723805, 2017

Co-PI, GROW: Strengthening the Mathematical Workforce, a conference for undergraduate women in mathematics, NSF DMS-1619748, 2016

Co-PI, NSF Research & Training Grant DMS-1502632, Northwestern University, 2015–2020

Co-PI, NSF Research & Training Grant DMS-1246844, University of Illinois at Chicago, 2013–2014

INVITED LECTURES (last 5 years only)

Geometry Colloquium, University of Cambridge, UK, 2026

Colloquium, Basque Center for Applied Mathematics, Bilbao, Spain, 2026

Cantrell Lectures, University of Georgia, 2026

Marker Lectures, Penn State University, 2026

AMS Special Session in Arithmetic Dynamics, Boston College, 2026

Alaoglu Memorial Lecture, Caltech, 2026

Colloquium, Tufts University, 2026

Colloquium, Université de Bordeaux, France, 2025

Public Lecture, Harvard-Radcliffe Institute, 2025

Arithmetic and Diophantine Geometry Conference, Paris, France, 2025

Colloquium, National University of Singapore, 2025

Workshop on Arithmetic Dynamics and Diophantine Geometry, Singapore, 2025

Workshop on Model Theory, Algebraic Dynamics, and Differential-Algebraic Geometry, Fields Institute, Toronto, Canada, 2025

Plenary Lecture, Mathematical Perspectives in Scientific Modeling, Rome, Italy, 2025

Plenary Lecture, Women in Mathematics Day, University of Waterloo, Canada, 2025

Colloquium, Indiana University, 2025

Bloomington Geometry Workshop, Indiana University, 2025

DeLong Lectures, University of Colorado, Boulder, 2025
 Mini-course, Dynamique algébrique, analytique, et arithmétique, CIRM Luminy, France, 2025
 Algebra Day Lectures, Johns Hopkins University, 2024
 Hamilton Lecture, Royal Irish Academy, Dublin, 2024
 Parameter spaces in complex dynamics, Scuola Normale Superiore, Pisa, Italy, 2024
 Arithmetic Dynamics Workshop, Montreal, Canada, 2024
 International Congress of Basic Science, Beijing, China, 2024
 Colloquium, Università Roma Tre, Italy, 2024
 Gordon Keller Math Majors Dinner Lecture, University of Virginia, 2024
 Colloquium, University of Oxford, UK, 2024
 Number Theory seminar, MIT, 2024
 Asprey Lectures, Vassar College, 2024
 International Colloquium on Randomness, Geometry, and Dynamics, Pune, India, 2024
 Iberoamerican Congress on Geometry, Dynamical Systems session, Pucón, Chile, 2023
 Panorama of Mathematics II, Hausdorff Center for Mathematics, Bonn, Germany, 2023
 Coloquio Brasileiro de Matematica, IMPA, Brazil, 2023
 Around the Mandelbrot Set, Shishikura birthday conference, Kyoto, Japan, 2023
 Northwestern University Undergraduate Prize Lecture, 2023
 Arizona Winter School, Lecture Series, University of Arizona, 2023
 Arizona State University, Celebration of Women in Mathematics, 2023
 AMS-AWM Noether Lecture at the Joint Math Meeting, Boston, 2023
 Complex Dynamics in the Tropics, IMPA, Brazil, 2022
 Distinguished Lecture Series, Brown University, 2022
 Colloquium, University of Washington, Seattle, 2022
 Number Theory Web Seminar, 2022
 Journal of Number Theory Biennial Conference, Cetraro, Italy, 2022
 Circle at Infinity, celebrating the mathematics of C. T. McMullen, Harvard University, 2022
 Plenary Lecture, Conference of the Italian Mathematical Union, Padova, Italy, 2022
 Colloquium (online), National University of Singapore, 2022
 Plenary lecture, Women in Math in New England (WIMIN), Smith College, 2022
 Colloquium, Distinguished Lecture Series (online), Indian Mathematics Consortium, 2021
 No Boundaries Seminar, University of Chicago, 2021
 Alexanderson Lecture, Santa Clara University and AIM, 2021
 Open Neighborhood Seminar, for undergraduates, Harvard math department, 2021
 Recent Developments in Algebraic Geometry, Arithmetic, and Dynamics (online), National University of Singapore, 2021
 Unlikely Intersections and Diophantine Geometry (online), University of Reading, UK, 2021
 AMS Special Session in Arithmetic Dynamics, (online) Joint Math Meeting 2021

GRADUATE STUDENTS

Graduate students

Holly Krieger, UIC, PhD 2013
 Paul Reschke, UIC, PhD 2013
 Hexi Ye, UIC, PhD 2013
 Louie Angelo Lee, Northwestern, MA 2016
 Corinna Wendisch, Northwestern, MA 2016
 Cara Mullen, UIC, PhD 2017
 Nicole Looper, Northwestern, PhD 2018
 Khashayar Filom, Northwestern, PhD 2020

Shuyi Weng, Northwestern, PhD 2020
Signe Jensen, Northwestern, PhD 2021
Yan Sheng Ang, MIT, PhD 2023
Jit Wu Yap, Harvard, PhD 2025
Current PhD students, Harvard: Sina Saleh, Chenxin Huang, Adam Melrod

RECENT SERVICE AND ACTIVITIES, BEYOND HARVARD

Editorial Positions

Editorial Board, Journal of the American Mathematical Society, 2018–present
 Managing Editor, Feb 2025–Jan 2029
Designated Editor, International Mathematics Research Notices, 2020–2024
Scientific Advisory Board, Quanta Magazine, 2023–2025
Editorial Board, Essential Number Theory, 2022–present
Editor, Proceedings of the Simons Symposia in Algebraic Dynamics 2019–2026
Editor, Proceedings of “Around the Mandelbrot set” Conference, Kyoto, 2023–2026
Editorial Board, Journal of Modern Dynamics, 2014–2021
Editorial Board, AMS Journal of Conformal Geometry and Dynamics, 2013–2020

National Academy of Sciences

Mathematical Sciences Education Board, National Academy of Sciences, 2025–present
National Academy of Sciences, Committee for Consensus Study, *Data and Computing in
 K-12 Education: Foundational Competencies*, 2024–2026
National Academy of Science Mirzakhani Prize Committee, 2023
Consensus Study Report reviewer, 2021

American Mathematical Society (AMS)

Council Member, 2025–present
Committee on Publications, 2017, 2023–2026
 Committee Chair, 2024
Editorial Boards Committee, elected position, 2016–2019
 Committee Chair, 2017
Selection Committee for Noether Lecture, 2014–2017
 Committee Chair, 2015–2016
Central Section Program Committee, 2014–2016
 Committee Chair, 2015, 2016
Lifetime Member, AMS

Conference Organization (last 10 years only)

Scientific Committee, Journées Arithmétiques, Bordeaux, France 2027
Scientific Committee, Complex Algebraic and Arithmetic Dynamics, Tokyo, Japan 2027
Organizer, Diophantine Approximation Workshop, CIRM France 2025
Organizer, Simons Symposium Series in Algebraic Dynamics, 2019, 2022, 2024
Scientific Committee, Renormalization and Visualization in Geometry, Dynamics, and Num-
 ber Theory, CIRM Luminy, France 2023
Scientific Committee, Iberoamerican Congress in Geometry, Pucon, Chile 2023
Organizer, AMS Special Session in Complex and Arithmetic Dynamics, Joint Meetings,
 Boston, 2023
Organizer, Circle at Infinity, Conference honoring C. T. McMullen, Harvard, 2022
Organizer, Arithmetic Dynamics Workshop, Harvard University, 2022
Organizer, Diophantische Approximationen Workshop, Mathematisches Forschungsinstitut
 Oberwolfach, 2022

Organizer, Midwest Dynamical Systems Conference, Northwestern, 2021
Organizer, Moduli Spaces of Dynamical Systems Workshop, American Institute of Mathematics, 2021
Scientific Committee, Iberoamerican Congress in Geometry, Mexico, 2020 (cancelled)
Organizer, Dynamics Days at Northwestern, 2019–2020
Organizer, Complex and Arithmetic Dynamics workshop, 2018
Organizer, Chicago Action Now Dynamics Day, 2018
Scientific Committee, Iberoamerican Congress in Geometry, Spain, 2018
Organizer, Midwest Dynamical Systems Conference, Northwestern, 2017
Organizer, BIRS Oaxaca Workshop, November 2017
Organizer, GROW 2017, conference for undergraduate women in mathematics, 2017
Organizer, GROW II, conference for undergraduate women in mathematics, 2016

Other (last 10 years only)

Modernizing Undergraduate Math Summit, participant, TPSE Math, 2026
External Review Committee, University of Virginia Mathematics, 2024
Assessment Committee for Tenure-track Hiring, Aarhus University, Denmark, Spring 2021
International Congress of Mathematics 2022 Committee, 2020–21
External Review Committee, CUNY Graduate Center, 2019
Selection Committee, Zhang Prize in Dynamical Systems, 2019
External Review Committee, Duke University Mathematics Department, 2018
Executive Committee (elected position), Association for Women in Mathematics, 2016–2018
External Review Committee, Committee Chair, Institute for Advanced Study, Princeton 2016
Grant/proposal reviews and panels for national science organizations of the USA (NSF), Canada, Chile, France, Germany, Israel.