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 of Mathematics, Harvard University, July 2020 – present
      Director of Undergraduate Studies, 2024–2025
Radcliffe Alumnae Professor at the Radcliffe Institute for Advanced Study, July 2020–present
Henry S. Noyes Professor of Mathematics, Northwestern Univ., September 2019 – June 2020
Professor, Northwestern University, September 2014 – August 2019
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 holomorphic maps $f : \mathbb{P}^N \to \mathbb{P}^N$ and their moduli spaces, studied with a combination of complex-analytic and algebraic techniques.

GRANTS and AWARDS

Frontiers of Science Award in Mathematics, ICBS Beijing 2024
Radcliffe Fellowship, Radcliffe Institute for Advanced Study, 2023–2024, 2025–2026
PI, NSF Research Grant DMS-2246630, 2023–2026
PI, NSF Research Grant DMS-2200981, 2023–2025
National Academy of Sciences, elected Member, 2020 – present
Alexanderson Award, American Institute of Mathematics, 2020
PI, NSF Research Grant DMS-1856103 DMS-2050037, 2019–2023
Invited Speaker, International Congress of Mathematicians, 2018
Satter Prize, American Mathematical Society, 2017
PI, NSF Research Grant DMS-1600718, 2016–2019
Simons Foundation Fellowship, 2015–2016
PI, NSF Research Grant DMS-1302929 DMS-1517080, 2013–2016

Kreeger Wolf Distinguished Visiting Professor, Northwestern University, 2013–2014
Fellow of the American Mathematical Society, 2012 – present
NSF Career Award DMS-0747936, 2008–2013
Sloan Foundation Research Fellowship, 2008–2010
PI, NSF Research Grant DMS-0600958, 2006–2009
NSF Postdoctoral Fellowship, University of Chicago, 2003–2006

Funding awarded for conferences and research programs
Week-long workshops, CIRM France, 2023, 2025
Simons Symposium Series in Mathematics, Simons Foundation, 2019–2024
Clay Mathematics Institute, for *Circle at Infinity* conference, 2022
Co-PI, NSF conference grant DMS-1952662 for *Circle at Infinity* 2022
Workshop, Mathematisches Forschungsinstitut Oberwolfach, 2021
Workshop, American Institute of Mathematics, 2021
PI, Midwest Dynamical Systems Conference Grant, NSF DMS-1856176, 2019–2022
BIRS Oaxaca workshop, Banff International Research Station, 2017
SQuaRE program, American Institute of Mathematics, 2016–2019
PI, Midwest Dynamical Systems Conference Grant, NSF DMS-1600654, 2016–2019
Co-PI, GROW 2017: Strengthening the Mathematical Workforce, a conference for under-
    graduate 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

UPCOMING
DeLong Lectures, University of Colorado, Boulder, February 2025
Women in Mathematics Day, University of Waterloo, Canada, May 2025
Mathematical Perspectives in Scientific Modeling, Rome, Italy, May 2025
Workshop on Model Theory, Algebraic Dynamics, and Differential-Algebraic Geometry, Fields
    Institute, Toronto, Canada, June 2025
Plenary lecture, 2025 Algebraic Geometry Summer Research Institute, August 2025
Arithmetic and Diophantine Geometry, in honor of Ullmo's 60th birthday, Paris, France,
    September 2025
Diophantine approximation and transcendence, CIRM, France, November 2025

RECENT (since 2020 only)
Mini-course, Dynamique algébrique, analytique, et arithmétique, CIRM Luminy, France, 2025
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, National University of Singapore, 2022
Plenary lecture, Women in Math in New England (WIMIN), Smith College, 2022
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) Workshop, University of Reading,
     UK, 2021
AMS Special Session in Arithmetic Dynamics, (Online) Joint Math Meeting 2021
Algebraic dynamics and connections to difference and differential equations, (Online) Con-
     ference, Banff Research Station, Canada, 2020
Ziwet Lecture Series, University of Michigan, 2020

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
Current PhD students, Harvard: Sina Saleh, Jit Wu Yap

RECENT SERVICE AND ACTIVITIES

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 2019–2024
Editor, Proceedings of "Around the Mandelbrot set" Conference, Kyoto, 2023
Editorial Board, Journal of Modern Dynamics, 2014–2021
Editorial Board, AMS Journal of Conformal Geometry and Dynamics, 2013–2020

CONFERENCE ORGANIZATION (last 5 years only)
Organizer, Diophantine Approximation Workshop, CIRM France, November 2025
Organizer, Simons Symposium Series in Algebraic Dynamics, 2019, 2022, 2024
Scientific Committee, Renormalization and Visualization in Geometry, Dynamics, and Number Theory, CIRM Luminy, France, December 2023
Scientific Committee, Iberoamerican Congress in Geometry, Pucon, Chile, December 2023
Organizer, AMS Special Session in Complex and Arithmetic Dynamics, Joint Meetings, Boston, January 2023
Organizer, Circle at Infinity, Conference honoring C. T. McMullen, Harvard, June 2022
Organizer, Arithmetic Dynamics Workshop, Harvard University, May 2022
Organizer, Diophantische Approximationen Workshop, Mathematisches Forschungsinstitut Oberwolfach, April 2022
Organizer, Midwest Dynamical Systems Conference, Northwestern, November 2021
Organizer, Moduli Spaces of Dynamical Systems Workshop, American Institute of Mathematics, September 2021
Scientific Committee, Iberoamerican Congress in Geometry, Mexico, June 2020 (cancelled)
Organizer, Dynamics Days at Northwestern, 2019–2020

OTHER SERVICE (last 5 years only)
National Academy of Sciences, Committee on "Developing Competencies for the Future of Data and Computing: the Role of K-12", 2024–2025
External Review Committee, University of Virginia Mathematics, 2024
National Academy of Science Mirzakhani Prize Committee, 2023
AMS Committee on Publications, 2017, 2023–2026
      Committee Chair, 2024
      Subcommittee for assessment of double-anonymous refereeing, 2024
      Subcommittee for journal review, 2024
Assessment Committee for Tenure-track Hiring, Aarhus University, Denmark, Spring 2021
International Congress of Mathematics 2022 Committee, 2020–21
Lifetime Member, American Mathematical Society (AMS)