EDWIN P. GERBER

Associate Professor

Center for Atmosphere Ocean Science, Department of Mathematics Courant Institute of Mathematical Sciences

New York University

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RESEARCH INTERESTS

- Climate variability on intraseasonal to interannual time scales
- Anthropogenic impacts on climate
- Atmospheric dynamics and circulation
- Stratosphere-troposphere interactions

EDUCATION

Princeton University, Princeton, NJ

Ph.D. in Applied and Computation Mathematics, 2006

Advisor: Geoffrey Vallis

Dissertation Committee: Isaac Held, Philip Holmes, and Paul Kushner

Fannie and John Hertz Foundation Fellowship, 2000 - 2005

The University of the South, Sewanee, TN

B.S. in Mathematics and Chemistry, 2000

Valedictorian, Class of 2000

RESEARCH EXPERIENCE

2008 to present	Courant Institute of Mathematical Sciences, New York University Associate Professor (2014-present), Atmosphere Ocean Science and Mathematics Assistant Professor (2008-2014), Atmosphere Ocean Science and Mathematics
2011, 2014-2015	Visiting Scientist at the Max Planck Institute for Meteorology, Hamburg Germany, and Free University Berlin
2006-2008	Columbia University, New York NY Postdoctoral Research Scientist with Professor Lorenzo M. Polvani, Department of Applied Physics and Applied Mathematics
2002-2005	Princeton University/Geophysical Fluid Dynamics Laboratory , Princeton NJ Research Assistant, Program in Applied and Computational Mathematics
2001	Woods Hole Oceanographic Institute , Woods Hole MA Fellow in the Summer Program in Geophysical Fluid Dynamics
2000	Institute for Defense Analysis, CCR-P, Princeton NJ SCAMP Summer Program in Mathematical Cryptology
1999	Department of Defense , Fort Meade MD, Director's Summer Program (Mathematics)
1998	University of Vermont, Burlington VT, REU Program in Chemistry

TEACHING EXPERIENCE

Courant Institute of Mathematical Sciences, New York University

2009 to present

Graduate Courses: Atmospheric Dynamics, Climate Modeling, Geophysical

Fluid Dynamics, Synoptic Meterology

Undergraduate Courses: Calculus I and II, Linear Algebra, Fundamental Dynamics of the Earth's Atmosphere and Climate, The Science and Policy of Climate Change

Community Impact at Columbia University, New York NY

2006-2008 GED (General Educational Development) mathematics instructor; taught algebra and geometry to adults preparing for high school equivalency exams

Princeton University, Princeton NJ

Lecturer for the Mathematics Department; taugh calculus

RESEARCH SUPERVISION

Graduate Students

Kevin DallaSanta, 2015-present

Aman Gupta, 2015-present

Megan Lytle, M.S., 2016

Naftali Cohen, Ph.D., 2014: now in industry

Xichen Li, Ph.D., 2014: now a Research Scientist a IAP, Chinese Academy of Sciences Ho Yeung Hung, M.S., 2014

Postdoctoral Research Scientists

Martin Jucker, 2014-2016: now a lecturer at University of New South Wales, Australia Changhyun Yoo, 2011-2014: now a professor at Ehwa University, Korea

PROFESSIONAL SERVICE

2013- present	Associate Editor, Quarterly Journal of the Royal Meteorological Society
2013-15	Member, Scientific Steering Group , World Climate Research Programme's (WCRP) Stratosphere-Troposphere Processes and their Role in Climate (SPARC) Project
2010- present	Co-Chair (since 2013) and Member of Scientific Steering Group , DynVar (Dynamics and Variability) Activity of SPARC and the DynVar Model Intercomparison Project
2012-17	Chair, Middle Atmosphere Committee, American Meteorological Society
2014- present	Member, Scientific Steering Group , VolMIP (Model Intercomparison Project on the climate response to Volcanic forcing)
2011, 18	Panel Member, National Science Foundation

JURIED PUBLICATIONS

Please see https://math.nyu.edu/~gerber/pages/polished_work.html

CONFERENCE PRESENTATIONS AND SEMINARS

Please see the long form of my CV,

https://math.nyu.edu/~gerber/pages/documents/epgCV.pdf