EDWIN P. GERBER

Professor of Mathematics and Atmosphere-Ocean Science
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RESEARCH INTERESTS

- Climate variability and change
- 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 Professor (Associate Professor 2014-18, Assistant Professor 2008-14)
2011, 2014-2015	Max Planck Institute for Meteorology and Free University Berlin Visiting Scientist
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

Graduate Courses: Atmospheric Dynamics, Climate Modeling, Geophysical

2009 to Fluid Dynamics, Synoptic Meterology

present Undergraduate Courses: Calculus I and II, Linear Algebra, Ordinary Differential

Equations, Fundamental Dynamics of the Earth's Atmosphere and Climate,

The Science and Policy of Climate Change

RESEARCH SUPERVISION

Graduate Students

Aman Gupta, Ph.D., 2020, now a postdoctoral scientist at LMU Munich

Kevin DallaSanta, Ph.D., 2019, now a postdoctoral fellow at NASA GISS

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

Xichen Li, Ph.D., 2014: now a Research Scientist a IAP, Chinese Academy of Sciences

Postdoctoral Research Scientists

Madeleine Youngs, 2020-present

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
2010- present	Member of Scientific Steering Group and Co-chair (2013-19), DynVar (Dynamics and Variability) Activity of the Stratosphere-Troposphere Processes and their Role in Climate (SPARC) Project, World Climate Research Programme (WCRP)
2014- present	Co-Chair , DynVar Model Intercomparison Project (DynVarMIP) for the Coupled Model Intercomparision Project, Phase 6 (CMIP6)
2014- present	Member, Scientific Steering Group , Model Intercomparison Project on the climate response to Volcanic forcing (VolMIP) for CMIP6
2019- present	Member , International Commission on the Middle Atmosphere, for International Association of Meteorology and Atmospheric Science (IAMAS)
2012-17	Chair, Middle Atmosphere Committee, American Meteorological Society
2013-15	Member, Scientific Steering Group, WCRP SPARC
2011, 18	Panel Member, National Science Foundation

JURIED PUBLICATIONS

Please see https://edwinpgerber.github.io/publications/

CONFERENCE PRESENTATIONS AND SEMINARS

Please see https://edwinpgerber.github.io/talks/