

Curriculum Vitae

Kritee, Ph.D.

Senior Scientist and Senior Manager, International Climate
Environmental Defense Fund, 2060 Broadway, Suite 300, Boulder, CO 80302

Work 303-447-7232
Cell 732-277-8134
E-Mail kritee@edf.org

Employment

Environmental Defense Fund

Senior Scientist and Senior Manager, International Climate (Jan 14 – present)
High Meadows Post-doctoral Fellow, Office of Chief Scientist (Nov 11 – Dec 13)

Global environment and health expert involving mercury, nitrogen, agriculture and climate:

- Lead Researcher for “Low carbon farming emission measurement program”
 - Participant in presenting and writing proposals/reports to funders
 - Manager of 14 personnel in 5 laboratories across 3 states in rural India
 - Frequent traveler to India to train multi-partner and multi-lingual team
 - Author of 4 original greenhouse gas and agro-economic data based drafts
- Collaboration broker for EDF, sustainable agriculture & climate experts worldwide
- Developer of climate smart farming based carbon offset methodologies
- Advisor to [Legal Counsel](#) team on the Mercury and Air Toxics Standards
- [Advocate among scientists](#) & EDF staff [blogger](#)

Princeton University

Dreyfus Post-doctoral Fellow, Dept. of Geosciences (July 08 – Aug 10)

Reactive nitrogen, biogeochemistry, ocean and climate research

- Studied bacterial denitrification and global budget of nitrogen in the ocean
- Published 6 peer reviewed articles & Presented at 3 international conferences

Rutgers University

Post-doctoral research faculty, Dept. of Environmental Science (Sept 10- Oct 11)
Doctoral research assistant (Sept 04- June 08)

Mercury, geochemistry, genetics and bioremediation research:

- Developed techniques to differentiate between different sources of mercury
- Published 11 frequently cited articles (**~350 citations**)
- Co-authored three major Federal funded grants (>\$2 million),
- Received 5 International and domestic awards

New Jersey Board of Public Utilities

Eagleton Fellow, Bloustein School of Planning & Public Policy (Jan -May 08)

Queensland Institute of Medical Research, Australia

Cancer research Intern (Apr–Aug 99)

Education

2001-08 Ph.D., Microbiology and Molecular Genetics Program,
Rutgers University, New Jersey

2007-08 Governor's Executive Fellowship
Eagleton Institute of Politics, Rutgers University

1996-2001 Integrated Bachelors and Masters of Technology
Department of Biochemical Engineering & Biotechnology
Indian Institute of Technology, New Delhi (IITD), India

Awards and Honors

- Dreyfus post-doctoral fellow in Environmental Chemistry, Princeton University (2008-2010)
- Governor's Executive Fellow, Eagleton Institute of Politics, Rutgers University, NJ (2007-08)
- Frank R. Lillie and Wheeler Family Founders' Scholarship, Marine Biological Laboratory (2007)
- American Society of Microbiology's Student Award, Toronto, Canada (2007)
- Author of "a HOT paper," one of most cited papers in the field of Chemistry, American Chemical Society (2007)
- Annual Robison Scholarship Award for Excellence in Graduate Studies, Rutgers Univ. (2007)
- Outstanding student presentation award, The 8th International Conference on Mercury as a Global Pollutant. Madison, WI (2006)
- Graduate Fellow, Undergraduate Research Centre at Rutgers Univ. (Spring 2005)
- Graduate Aptitude Test in Engineering (GATE) Scholarship (99 percentile), India (2000)
- Summer Undergraduate Research Award, Indian Institute of Technology, India (1998).

Federal research grants

- Researcher and consultant for writing a grant funded by the National Science Foundation (NSF): "Mass-Dependent and Independent Mercury Isotope Fractionation during Microbial Methylation and Redox Transformations in Natural Waters" (2009) \$400,000
- Isotope consultant for a grant funded by the Department of Energy (DOE): "Defining the Molecular-Cellular-Field Continuum of Mercury Detoxification" (2008) \$1,300,000
- Participation in writing and researching for a funded National Science Foundation (NSF) grant "Collaborative research: Mercury isotope fractionation during microbial and abiotic redox transformations" (2004) \$400,000
- United States Geological Survey (USGS) funded New Jersey Water Research Resource Institute (NJWRI) Graduate Student Grant (2004) \$4000

Major Research Experience

- Understanding the role of water, fertilizer and organic matter application in controlling the emission of greenhouse gases (nitrous oxide and methane), soil health and water quantity and quality at small-holder farms in Asia (with Prof. Steven Hamburg and Richie Ahuja)
- Stable isotope fractionation during denitrification & implications for marine N isotope budget. (with Postdoctoral Advisor, Prof. Daniel Sigman, Princeton University)
- Stable isotope fractionation of mercury during its microbial transformations. (Prof. Tamar Barkay and John Reinfeld, Rutgers Univ. and Prof. Joel Blum, Univ. of Michigan)
- A chemical & computational model to predict genes and analyze prokaryotic genomes. (Masters Advisor: Prof. B. Jayaram, Indian Institute of Technology)
- Study of molecular interactions of a putative tumor suppressor protein p73. (Intern Project: Apr–Aug 1999 (Prof. Martin Lavin, Molecular Oncology Lab, QIMR, Australia)

Organizational experience

1. Lead convener "The influence of changes in farming practices, vegetation, and land-use on climate adaptation, mitigation and ecosystem and socio-economic services" International American Geophysical Union's Fall meeting (Dec 2014)
Mitigating greenhouse gas (GHG) emissions associated with farming and land use are crucial for avoiding catastrophic climate change. Yet these objectives must be achieved while improving yields to meet the fuel, food and fiber needs of a growing population. The presentations included discussion of the effect of innovative wet (i.e., rice) and dryland farming techniques (including water, fertilizer and/or soil management) on GHG emissions, yields, and socio-economic services.

2. Co-convenor of a Special Session entitled "Mercury Emission Reductions in the Power Sector in the U.S" at the 11th ICMGP International Conference on Mercury as a Global Pollutant, which will take place in Edinburgh, Scotland (2013)
3. Co-organizer of "Greenhouse gas (GHG) emission modeling," an Emerging Issues workshop at Environmental Defense Fund (EDF), New York (Jan 2013)
EDF is engaged in a number of agricultural projects where accurate estimates of GHG emissions are needed. Modeling GHG emissions can provide a cost-effective understanding of the carbon footprint of farming activities. Several models (e.g., DNDC and Daycent) are available for estimating GHG emissions and EDF is interested in better understanding these models and where best to apply them.
4. Convenor and organizer "Greenhouse gas (GHG) emission measurement," a hands-on workshop for laboratory staff and experts from the Fair Climate Network, [Accion Fraterna Ecology Centre](#), Anantapur, Andhra Pradesh, India (April 2012)
5. Convenor: [Letter to President Barack Obama in support of Mercury and Air Toxics Rule by mercury physicians and scientists](#) (Dec 2011)
6. Organizer -Mercury Biogeochemical Cycling Journal Club, Rutgers University (2011)
Biweekly discussion of hot papers in mercury biogeochemistry for members of several mercury Laboratories at Rutgers and Princeton
7. Co-convenor of a session entitled "Mechanistic Understanding of Factors Influencing Non-mass Dependent Fractionation" at American Geophysical Union (AGU)'s Fall Meeting from 14th to 18th December (2009) in San Francisco, CA.
8. Interdisciplinary Environmental Remediation Discussion Club, "PCB contaminated Hudson River Superfund Site" Rutgers University (Spring 2004)
For a group of faculty members, students, community activists and representatives from NJ Department of Environmental Protection held weekly debates on the health effects, risk perception and assessment, and technical feasibility of the available remediation options.

Peer reviewed publications

1. Tiwari R., **Kritee K.**, Adhya T. K., Loecke T., Rudek J., Nair D., Ahuja R., Balireddygar S., Balakrishna S., Ram K., Venkataiah L.C., Dava O., Madasamy M., Salai A. (2014), Optimization of sampling and analytical methodology for measurement of greenhouse gas emissions from small-scale rainfed cropping systems of peninsular India (Submitted to Greenhouse gas measurement and management)
2. **Kritee K.**, Nair D., Tiwari R., Rudek J., Ahuja R., Adhya T. K., Loecke T., Hamburg S., Tetaert, F., Reddy S., Dava O. (2014) Groundnut cultivation in semi-arid peninsular India for yield scaled nitrous oxide emission reduction (Submitted to Nutrient cycling in Agroecosystems)
3. Tal Lee Anderman, Ruth S. DeFries, Stephen A. Wood, Richie Ahuja, **K. Kritee**, Shujayath E. Ulla (2013) Evaluating Co-benefits of Alternative Cook Stoves: Example of Biogas in Southern India (Submitted to PLOS ONE)
4. **Kritee, K.**, Joel D. Blum, John R. Reinfelder and Tamar Barkay (2013) "Microbial stable isotope fractionation of mercury: A synthesis of present understanding and future directions." *Chemical Geology* **336**: 13-25
5. **Kritee, K.**, Daniel M. Sigman, Julie Granger, Amal Jayakumar, Curtis Deutsch (2012) Reduced isotope fractionation by denitrification under conditions relevant to the ocean. *Geochimica et Cosmochimica Acta* **92**: 243-259.

6. Karsh, K. L., J. Granger, **K. Kritee** and D.M. Sigman (2012), Eukaryotic assimilatory nitrate reductase fractionates N and O Isotopes with a ratio near unity. *Environmental Science and Technology*, 46 (11): 5727-35.
7. Tamar Barkay, **Kritee K.**, Eric Boyd, and Gill Geesey (2010), A thermophilic bacterial origin of the microbial mercuric reductase and subsequent constraints on its evolution by redox, light, and salinity, *Environmental Microbiology*. **12** (11):2904-2917.

----- Evaluated as a **Must Read** by Faculty of 1000

8. **Kritee K.**, Tamar Barkay and Joel. D. Blum (2009), Mass dependent stable isotope fractionation of mercury during *mer* mediated microbial degradation of monomethylmercury *Geochimica et Cosmochimica Acta*. **73** (5): 1285-1296
9. **Kritee K.**, Joel. D. Blum and Tamar Barkay (2008), Mercury stable isotope fractionation during reduction of Hg(II) to Hg(0) by different microbial pathways, *Environmental Science and Technology*. **42** (24): 9171–9177.
10. **Kritee K.**, Joel. D. Blum, Marcus W. Johnson, Bridget. A. Bergquist and Tamar Barkay (2007), Mercury stable isotope fractionation during reduction of Hg(II) to Hg(0) by mercury resistant microorganisms. *Environmental Science and Technology*. **41**:1889-1895

----- A **"hot"** and **"a most cited"** ES&T article in 2007

11. Samrat Dutta*, Poonam Singhal*, Praveen Agarwal*, Raju Tomer*, **Kritee K.***, Ekta Khurana and B. Jayaram (2006), A Physicochemical Model for analyzing DNA sequences. *Journal of Chemical Information and Modeling* **46**: 78-85

* **equal contributors**

Published proceedings

12. **K. Kritee**, Rakesh Tiwari, Drishya Nair, Tapan Adhya & Joe Rudek (**2014**), Creating rigorous pathways to monetize methane & nitrous oxide emission reductions at small rice farms in semi-arid peninsular India *Eos Trans. AGU Fall Meet. Suppl.*, Abstract GC11E-0597
13. Shyamala Rajan, **K. Kritee**, Cynthia Keough, William Parton and Stephen M Ogle, Calibration of Daycent biogeochemical model for rice paddies in three agro-ecological zones in Peninsular India to optimize cropping practices and predict GHG emissions *Eos Trans. AGU Fall Meet. Suppl.*, Abstract GC11E-0599
14. Joe Rudek, Nguyen Sanh, Tran Tinh, Huynh Tin, Tran Thu Ha, Doan Pha, Tran Q. Cui, Nguyen H. Tin, Nguyen N. Son, Huynh H. Thanh, Hoang T. Kien, **K. Kritee** and Richie Ahuja, Low Carbon Rice Farming Practices in the Mekong Delta Yield Significantly Higher Profits and Lower Greenhouse Gas Emissions *Eos Trans. AGU Fall Meet. Suppl.*, Abstract GC11E-0600
15. **K. Kritee**, Rakesh Tiwari, Drishya Nair, Terrance D Loecke, Tapan K. Adhya, Joe Rudek, Richie Ahuja, Steven Hamburg (2013) Greenhouse gas emissions from rice, peanut and millet farms in peninsular India: Effects of water and nitrogen management *Eos Trans. AGU Fall Meet. Suppl.*, Abstract GC33A-1098
16. Joseph Rudek, **K. Kritee**, Richie Ahuja (2012) Optimizing nitrogen fertilizer use on small landholder farms in India and Vietnam Reactive Nitrogen from Agriculture: Emissions, Consequences, and Management" at the 244 American Chemical Society National Meeting in Philadelphia, PA, (August 19-23 2012) ([link](#))
17. **Kritee K.** (2010), Mass Independent Fractionation of Mercury and Microbiology: Where Can They Intersect? *Geochimica et Cosmochimica Acta*. **74** Supplement 1: A541 (**Invited**)
18. Deutsch, C. A., **K. Kritee**, D. M. Sigman, S. Khatiwala and J. Granger (2010), The isotopic signature of denitrification and the global marine nitrogen balance, *Eos Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., Abstract IT11A-05

19. **K. Kritee**, D. M. Sigman, and J. Granger (2010), Dependence of the Nitrogen Isotope Effect of Denitrification on the Cell Specific Nitrate Reduction Rate and its Implications for Denitrification in the Ocean, *Eos Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., Abstract IT 11A-06
20. **K. Kritee**, D. M. Sigman, and J. Granger (2009), Nitrogen Isotope Fractionation Increases with the Cell-Specific Dissimilatory Nitrate Reduction Rate, *Eos Trans. AGU*, **90**(52), Fall Meet. Suppl., Abstract H53D-0964
21. Julie Granger, Kristen Karsh, Weifu Guo, Daniel Sigman and **Kritee K.** (2009) The Nitrogen and Oxygen isotope composition of nitrate in the environment: The systematics of biological nitrate reduction. *Geochimica et Cosmochimica Acta*, **73** (13) Supplement 1:A357
22. **Kritee K.**, Tamar Barkay and Joel D. Blum (2008) Absence of magnetic isotope fractionation for Hg during dark biological processes: experimental evidence and theoretical considerations *Eos Trans. AGU*, **89** (53), Fall Meet. Suppl., V52B-06 **(Invited)**
23. **Kritee, K.**, Barkay, Tamar, Blum, J. D. (2008) Mass dependent isotope fractionation of Hg during biotic degradation of methyl-Hg & reduction of Hg(II). *Geochimica et Cosmochimica Acta*, **72** (12) Supplement 1: A499.
24. **Kritee, K.**, Blum, J. D., Johnson, M. W., Bergquist, B. A., Barkay, T. (2007) Variation in the extent of mercury (Hg) stable isotope fractionation during reduction of Hg(II) to Hg(0) by different microbial strains *Abstracts of the General Meeting of the American Society for Microbiology*, p107.
25. **Kritee K.**, Bjorn Klaue, Joel D. Blum and Tamar Barkay (2005), Biological mercury isotope fractionation. *Geochimica et Cosmochimica Acta*. **69** (10) Supplement 1: A708
26. **Kritee K.**, Bjorn Klaue, Tamar Barkay & Joel Blum (2004), Mercury isotopic fractionation observed during the reduction of Hg(II) to Hg(0) by the bacterial mercuric reductase. *RMZ – Materials and Geoenvironment*. **51**(2): 1154-55.

Publications (in preparation)

1. **Kritee K.**, Rakesh Tiwari, Drishya Nair, Tapan Adhya, Terry Loecke, Richie Ahuja (2015) Changes in methane and nitrous oxide emissions from intermittently flooded rice paddies in South India: Effects of sustainable water use and fertilizer management.
2. Tapan Adhya, **Kritee K.**, Richie Ahuja (2015) Sustainability of Indian agriculture: Food security, resource use efficiency and greenhouse gas warming mitigation potential.
3. **Kritee K.**, Rakesh Tiwari, Drishya Nair, Tapan Adhya, Terry Loecke, Richie Ahuja (2015) Nitrous oxide emission changes from millet in South India: Effects of sustainable nutrient management
4. **Kritee K.**, Laura C. Motta, Martin Tsui, Tamar Barkay, Joel D. Blum, John R. Reinfelder (2015) Mass independent stable isotope fractionation of mercury during intra and extra-cellular algal transformations of inorganic and organic mercury (for *Environmental Science and Technology*)
5. Laura C. Motta, **K. Kritee**, Martin Tsui, Tamar Barkay, Joel D. Blum, John R. Reinfelder (2015) Effects of pH, dissolved oxygen, and wavelength of light on mercury stable isotope fractionation during photochemical reduction of organically complexed Hg(II) (for *Environmental Science and Technology*)

Unpublished conference presentations

1. **K. Kritee**, Laura C Motta, Martin Tsui, Tamar Barkay, Joel D. Blum, and John R. Reinfelder Mass independent stable isotope fractionation of mercury during intra- and extracellular algal

transformations of inorganic and organic mercury *The 11th International Conference on Mercury as a Global Pollutant*. Edinburgh Scotland, July 28th - Aug. 2nd, 2013

2. **Kritee, K.**, J. D. Blum, M. Johnson, B. A. Bergquist, and T. Barkay. The measurement of microbial mercury stable isotope fractionation and its potential utility for distinguishing between Hg sources. *The 8th International Conference on Mercury as a Global Pollutant*. Madison, WI, Aug. 11–16, 2006. (**Outstanding Poster Presentation award**)
3. **Kritee K.**, J. D. Blum, and T. Barkay, Microbial Mercury isotopic fractionation during the reduction of Hg(II) to Hg(0). *North Eastern Microbiologists: Physiology, Ecology and Taxonomy Annual Meeting*, Blue Mountain Lake, NY. June 23-26, 2006 (**Talk**)

Other invited/nominated talks

1. **Kritee K.**, Climate Smart Agriculture in Asia: Measurements, Implementation Strategy and Challenges, The Center for Science and Technology Policy Research (CSTPR), University of Colorado, Boulder, CO
2. **Kritee K.** Low carbon farming in South India – invited by South Asian Students in Sciences, April **2013**, Rutgers University
3. **Kritee K.** Tracing the history of mercury pollution – the stable isotope approach – invited by Dept. of Environmental Science, Oct **2011**, Rutgers University
4. **Kritee K.** Metal and Microbes, for Environmental and Pollution Microbiology – invited by Prof. [Lily Young](#), May **2011**, Rutgers University
5. **Kritee K** and Daniel Sigman Bridging microbiology and geochemistry – Reduced N isotope effect during denitrification: Implications for global marine fixed N budget. – invited by Dept. of Biochem. & Microbiol, Feb 11th **2011**, Rutgers University
6. **Kritee K.** Mercury, Microbes and Mass Independent Fractionation - invited by [Prof. Robert Sherrell](#), **2010** Institute of Marine and Coastal Sciences, Rutgers University
7. **Kritee K.**, J. D. Blum, and T. Barkay, Absence of magnetic isotope fractionation for Hg during dark biological processes: experimental evidence and theoretical considerations. *American Geophysical Union Fall Meeting* Dec. 15th -19th, **2008** San Francisco, California
8. **Kritee K.**, Remarks as Governor's Executive Fellow: Class of 2008 Closing program, Eagleton Institute of politics, May 19th, **2008** Rutgers University
9. **Kritee K.**, Microbial Stable Isotope Fractionation of mercury by mercury resistant microbes. *GEOTOP Université du Québec à Montréal* May 8th, **2007** Canada
10. **Kritee K.** Heavy metal and radionuclide remediation - invited by Prof. [Lily Young](#) **2006**, Rutgers University

Scientific Conferences

1. American Geophysical Union meeting, Dec. 15 -19, San Francisco, CA. **2014** (Poster)
2. "Reducing the costs of GHG Estimates in Agriculture to Inform Low Emissions Development" – FAO and CCAFS organized workshop, Nov 10-12, Rome, Italy **2014** (Talk)
3. Fourth International Rice Congress, Oct 27 – Nov 1, Bangkok, Thailand, **2014**
1. American Geophysical Union meeting, Dec. 9 -13, San Francisco, CA. **2013** (Poster)
2. The 11th International Conference on Mercury as a Global Pollutant, Scotland **2013**
3. American Geophysical Union meeting, Dec. 5 -9, San Francisco, CA. **2011**
4. The 10th International Conference on Mercury as a Global Pollutant, Canada Jul. 24 -29 **2011**
5. Goldschmidt 2010, June 13 – 18, Knoxville, TN, **2010** (Invited Talk)
6. Ocean Sciences, Feb 22-26 Feb, Portland, OR **2010** (Talk)
7. American Geophysical Union meeting, Dec. 14 -18, San Francisco, CA. **2009** (Poster)
8. American Geophysical Union meeting, Dec. 15 -19, San Francisco, CA. **2008** (Invited Talk)

9. The 16th Goldschmidt Conference, Vancouver, Canada. July 13 – 18, **2008** (Talk)
10. American Society of Microbiology's 107th General Meeting, Toronto, Canada. **2007** (Poster)
11. Joint Molecular Biosciences Symposium, Rutgers University Feb 23, **2007** (Talk)
12. The 8th International Conference on Mercury as a Global Pollutant, Madison **2006** (Poster)
13. North Eastern Microbiologists: Physiology, Ecology and Taxonomy Annual Meeting, Blue Mountain Lake, NY. June **2006** (Talk)
14. The 15th International Goldschmidt Conference, Moscow, Idaho. May 20 – 25, **2005** (Poster)
15. The 7th International Conference on Mercury as a Global Pollutant, Ljubljana, Slovenia, June 27 – July 2, **2004**. (Talk)

Additional policy conferences

1. 11th EPRI Greenhouse Gas Offsets Workshop on *Creating Nitrous Oxide (N₂O) Emission Reductions in U.S. Agriculture (aka "Nutrient Management")*, Washington, DC, Nov 4, **2011**
2. Microbes & Their Role in Conservation: The Center for Biodiversity & Conservation's 12th Annual Symposium, American Museum of Natural History, NY April 26-27, **2007**
3. Reaching our targets: Innovative Global Warming Solutions for New Jersey, NJ **2007**
4. Meadowlands Commission Scientific Workshop on Restoration and Contaminants, NJ **2006**
5. Second Passaic River Symposium: Progress and Challenges, Montclair University. **2006**
6. Environmental Protection Agency Mercury Fate & Transport Workshop, Washington DC. **2003**

Mentoring experience

Environmental Defense Fund (Jan 2012 – present)

Research Director, Low carbon farming (GHG emission reduction) program, India

- Rakesh Tiwari and Drishya Nair (EDF contractors, [Fair Climate Network](#))
- Shalini Reddy, Kalpana Kallmadi & Obulapathi Dava ([Accion Fraternal](#) and [Social Education and Development Society](#), Andhra Pradesh)
- Shantappan, Murugan & Vadivel ([Palmyrah Workers Development Society](#), Tamil Nadu)
- Karthik & Divya ([Bharat Environment Seva Team](#), Tamil Nadu)
- Soma Shekar & Leela (Social Animation Center for Rural Edu. & Dev., Karnataka)
- Ramakrishna Varaprasad, Kishore ([Timbaktu Collective](#), Andhra Pradesh)

Mentor, Rutgers (2005- present)

Laura Motta	Sophomore, Rutgers	<i>Fall 10- present</i>
Brittany Karas	Junior, Rutgers	<i>Summer 11</i>
Matt Meredith	Senior, Colby College, Maine	<i>Summer 05</i>
Richard Pescatore	Undergraduate Research Centre Rutgers University	<i>Spring 05</i>

Mentor, Princeton (2008-2010)

Jason Cutrera *Fall 08-Fall 09*

Invited Guest Lecturer, Rutgers (2004-2011)

General Microbiology (11:680:390) *3 semesters*
 Microbial Ecology (16:681:572) *4 semesters*

Teaching Assistant, Rutgers (2002-2004)

Applied Microbiology (11:126:486) *1 semester*
 General Microbiology (11:680:390) *2 semesters*
 Microbial Ecology (16:681:572) *1 semester*

Synergistic Activities

Grant proposal Panel Reviewer

National Institute of Food and Agriculture (NIFA), US Department of Agriculture (USDA)

Reviewer for peer-reviewed journals

Environmental Science and Technology
Environmental Chemistry
Chemical Geology
Chemical Engineering Communications
Analytical Chemistry

Journal of Hazardous Materials
The Science of Total Environment
Geochimica Et Cosmochimica Acta
Chemical and Biochemical Engineering Quarterly
Nutrient Cycling in Agro-Ecosystems

Mentor

Academy for the Advancement of Science and Technology Science Day (2011)

Contributor

- Blogs: [EDF talks global climate](#), [EDF Voices](#) and [Climate 411](#)
- [Science and Policy Paper](#), One Earth Sangha's [Mindfulness and Climate Action series](#)
- [Mercury pollution resources](#), Moms Clean Air Force: *how mercury pollution from coal power plants makes its way to our food, the relative roles of natural and international sources, the reasons of acute toxicity of mercury compounds, socio-economic impact of EPA's Mercury and Air Toxics Standards (MATS)*

Membership and affiliations

- Graduate Student Representative: Rutgers Committee on Sustainability (2006-2008)
([Link to our first report](#))
- Professional Member:
 1. American Geophysical Union (2008 - present)
 2. American Society of Microbiology (2005 - present)

References

1. Steven Hamburg (Ex-supervisor)
Ex-professor, Brown University
Chief Scientist, Environmental Defense Fund, 257 Park Avenue South, NY 10010
Tel: (617) 406-1832 E-mail: shamburg@edf.org
2. Richie Ahuja (Current supervisor)
Regional Director, Asia, Environmental Defense Fund, 301 Congress Avenue, Austin, TX 78701
US Mobile: +1 512 744 8926 E-mail: rahuja@edf.org
3. Joel D. Blum (Collaborator and Ph.D. co-advisor)
John D. MacArthur Professor of Geological Sciences
University of Michigan, 2534 C.C. Little Building, 1100 N. University Ave.
Ann Arbor, MI 48109-1063
Tel: (734) 615-3242 E-mail: jdblum@umich.edu
4. Daniel M. Sigman (Post-doctoral advisor)
Professor, Department of Geosciences, Princeton University
Guyot Hall, Washington Road, Princeton NJ 08540
Tel : (609) 258-2194 Email: sigman@princeton.edu
5. John Weingart (Eagleton Institute of Politics Mentor)
Associate Director, Eagleton Institute of Politics
Chair of New Jersey's Highlands Water Protection and Planning Council.
Wood Lawn, 191 Ryders Lane, New Brunswick, NJ 08901-8557
Tel: (732) 932-9384 X 290 Email: john.weingart@rutgers.edu