

## James A. Rising

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Grantham Research Institute  
London School of Economics  
<http://existencia.org/pro>

### RESEARCH INTERESTS

**Impacts of climate change:** Research focuses on bringing together empirical estimates and integrated assessment models.

**Modeling of social-environmental systems:** Research focuses on complex systems, food production, and resource management.

### ACADEMIC POSITION

2018 – PRESENT **London School of Economics** – Assistant Professorial Research Fellow, Grantham Research Institute  
2017 **University of Chicago** – Post-Doctoral Scholar, Economics Department  
2015 – 2017 **University of California, Berkeley** – Ciriacy-Wantrup Postdoctoral Fellow, Energy & Resources Group  
2003 – 2005 **Franklin W. Olin College of Engineering** – Electrical and Computer Engineering instructor

### EDUCATION

2010 – 2015 **Columbia University** – Ph.D. in Sustainable Development  
Committee: Dr. Upmanu Lall, Dr. Geoffrey Heal, Dr. Mark Cane, Dr. Martin Smith, Dr. John Mutter  
2013 **Columbia University** – M.A. and M. Phil. in Sustainable Development  
1999 – 2003 **Massachusetts Institute of Technology** – Bachelor of Science in Philosophy, 2003

### PEER-REVIEWED PUBLICATIONS

- Ciscar, J-C., Rising, J., Kopp, R., & Feyen, L. (2019). Assessing future climate change impacts in the EU and the USA: insights and lessons from two continental-scale projects. *Environmental Research Letters*.
- Ramesh, L., Rising, J., & Oremus, K. L. (2019). The small world of global marine fisheries: the cross-boundary consequences of larval dispersal. *Science*.
- Josset, L., Allaire, M., Hayek, C., Rising, J., Thomas, C., & Lall, U. (2019). The USA water data gap - A survey of state-level water data platforms to inform the development of a national water portal. *Earth's Future*.
- Campbell, K., Rising, J., Mbilo, J. M., & Klopp, J. (2018). Accessibility across transport modes and residential developments in Nairobi. *Journal of Transport Geography*.
- Moore, F. C., Rising, J., Lollo, N., Springer, C., Vasquez, V., Dolginowm A., Hope, C., & Anthoff, D. (2018). MIMI-PAGE, an open-source implementation of the PAGE09 integrated assessment model. *Scientific Data*.
- Hsiang, S., Kopp, R., Jina, A., Rising, J., *et al.* (2017). Estimating economic damage from climate change in the United States. *Science*, 356(6345), 1362-1369.
- Rising, J. (2017). A flexible approach to model coupling through probabilistic pooling. *Environmental Modelling and Software*.
- Dumas, M., Rising, J. A., & Urpelainen, J. (2016). Path Dependence, Political Competition, and Renewable Energy Policy: A Dynamic Model. *Ecological Economics*.

- Houser, T., R. Kopp, S. Hsiang, M. Delgado, A. Jina, K. Larsen, M. Mastandrea, S. Mohan, R. Muir-Wood, D. J. Rasmussen, J. Rising, & P. Wilson (2015). *American Climate Prospectus: Economic Risks in the United States*. Columbia University Press.
- Rising, J. (2014). Creating the Commons: Fisheries and the World Bank. *History of economic thought and policy*, 75 – 95, DOI: 10.3280/SPE2014-001003.

#### POPULAR MEDIA

- Rising, J. (October 31, 2017). Rick Perry's Plan To Help Coal Could Hold Back Renewables, But It Isn't The Only Barrier. Forbes. <http://https://www.forbes.com/sites/ucenergy/2017/10/31/secretary-perry-coal-subsidy-could-hold-back-renewable-growth-but-it-wouldnt-be-the-only-barrier/>

#### ONLINE BOOKS

- Rising, J., Sachs, J., *et al.* (2015). The impacts of climate change on coffee: trouble brewing. <http://eicoffee.net>
- Rising, J. (2015). Scales for scales: An open look at the open sea. ProQuest. <https://search.proquest.com/docview/1682500237>
- Rising, J. (2005). DSPFirst Lab Book. Olin College of Engineering, <http://existencia.org/files/dsplabs.pdf>

#### CIRCULATING WORKING PAPERS

- A model of America's Water (with Laureline Josset, Tara Troy, and Upmanu Lall, under review at Global Environmental Change)
- Confounding adaptation in perennial climate damages: A unified statistical approach for Brazilian coffee
- Global benefits of marine protected areas (with Geoffrey Heal)
- Valuing the Global Mortality Consequences of Climate Change Accounting for Adaptation Costs and Benefits (with Tamma Carleton *et al.*)
- Performance of agricultural process models using global data (with Mark Cane)
- A tool for distributed meta-analysis (with Solomon Hsiang and Robert Kopp)
- Empirical models of yields across climatic regions (with Naresh Devineni)

#### GRANT PROJECTS

- |             |  |
|-------------|--|
| 2018 – 2019 | <b>Economic and policy analysis for improving smallholder coffee producers' incomes</b> – (\$30,000).  |
| 2015 – 2016 | <b>Social Science Meta Analysis and Research Transparency</b> – PI: Solomon Hsiang (Funded by the Berkeley Institute for Transparency in the Social Sciences, \$30,000)                                    |
| 2015        | <b>Probabilistic projections of potential humanitarian response needs 2015-2035</b> – PI: Marc Levy (\$5,000)  |
| 2014 – 2017 | <b>America's water: the changing landscape of risk, competing demands and climate</b> – Co-PIs: Upmanu Lall, Lisa Goddard, Michael Gerrard, Marc Levy, and Brendan O'Flaherty (Funded by NSF, \$2,016,098) |
| 2014 – 2015 | <b>Earth Institute Study of Coffee Production and Trade</b> – PI: Jeffrey Sachs (Funded by Illy Coffee and Lavazza, \$200,000)   |
| 2013 – 2014 | <b>Econometric assessment of climate change impacts in the USA</b> – PI: Solomon Hsiang  |
| 2013 – 2014 | <b>Electricity and Green Development</b> – PI: Wolfram Schlenker (Funded by GGGI, \$20,000)  |
| 2013        | <b>Damage Function Merging for Integrated Assessment Models</b> – PI: Robert Kopp (\$10,000)   |

## AWARDS

2015 – 2017 Ciriacy-Wantrup Postdoctoral Fellowship, University of California, Berkeley.  
2012 – 2015 **NSF Graduate Research Fellowship Program Fellow**  
2013 **Co-organizer**, Interdisciplinary Ph.D. Workshop in Sustainable Development  
2003 **Todd Anderson Teaching Award**, Experimental Study Group, M.I.T.  
2000 **Fiekowsky Community Service Award**, Experimental Study Group, M.I.T.

## TEACHING EXPERIENCE

2018 **Climate Change: Science, Economics, and Policy** – LSE  
2013, 2015 **Complexity Science** – Columbia University, developed curriculum and co-taught with Upanu Lall and Johannes Castner (2013) and Marion Dumas (2015)  
2012 **Progressive Alternatives** – Columbia University (joint with Harvard and Sciences Po), TA for Jeffrey Sachs  
2011 **Environmental Science for Sus. Dev.** – Columbia University, TA for John Mutter  
2008 **Future Seminar** – Experimental Study Group, M.I.T., Instructor  
2005 **Run the World Seminar** – Experimental Study Group, M.I.T., and Olin College of Engineering, Instructor  
2005 **Philosophy of Love** – Massachusetts Institute of Technology, TA for Lee Perlman  
2005 **Introductory Electronics** – Olin College of Engineering, TA for Gill Pratt  
2005 **Engineering of Distributed Systems** – Olin College of Engineering, TA for Gill Pratt  
2004 **Human System Dynamics** – Olin College of Engineering, Instructor  
2004 **Engineering of Continuous Systems** – Olin College of Engineering, TA for Gill Pratt  
2004 – 2005 **Discrete Signal Processing** – Olin College of Engineering, TA for Diana Dabby  
2003 **Software Using Images and Sound** – Olin College of Engineering, TA for Jill Crisman  
2003 **Technologies and Cultures** – Experimental Study Group, M.I.T., co-taught with Amilio Aviles  
2003 **The Learning Seminar** – Experimental Study Group, M.I.T., Instructor  
2001 – 2002 **Structure and Interpretation of Computer Programs** – Massachusetts Institute of Technology, TA for Eric Grimson and Ben Vandiver  
2000 – 2003 **Lego Robotics Seminar** – Experimental Study Group, M.I.T., Instructor

## ONLINE CLASS MATERIALS

- Rising, J. and A. Aviles (2011). SP.272 / ES.SP272 Culture and Technology, Spring 2003. Massachusetts Institute of Technology: MIT OpenCourseWare, <http://ocw.mit.edu/courses/special-programs/sp-272-culture-tech-spring-2003/>
- Rising, J. (2010). SP.256 / ES.SP256 The Coming Years. Massachusetts Institute of Technology: MIT OpenCourseWare, <http://ocw.mit.edu/courses/special-programs/sp-256-the-coming-years-spring-2008/>
- Rising, J. (2009). SP.291 / ES.SP291 Learning Seminar: Experiments in Education. Massachusetts Institute of Technology: MIT OpenCourseWare, <http://ocw.mit.edu/courses/special-programs/sp-291-learning-seminar-experiments-in-education-spring-2003/>
- Rising, J. (2008). SP.293 / ES.SP293 Lego Robotics. Massachusetts Institute of Technology: MIT OpenCourseWare, <http://ocw.mit.edu/courses/special-programs/sp-293-lego-robotics-spring-2007/>

## STUDENTS

Mentoring: Kimberly Lai (PhD student, Columbia), Carolyn Hayek (PhD student, Columbia), Eyal Frank (PhD student, Columbia), Morgan Levy (PhD Student, UC Berkeley), Niklas Lollo (Masters/PhD student, UC Berkeley)

## INDUSTRY EXPERIENCE

- 1997 – 2012 **Contract Software Development** – Statistical analysis (**D<sub>x</sub>CG, Inc.**), database tools (**Terascape Software, EMC<sup>2</sup>, Inc., NormaTec, Inc.**), website development (**iNeed.com, SoundSpectrum**), audio and video processing (**Wave Arts, Inc., SalientStills, Harmonix Music**), mobile apps (**EnginArt, Liiiike, Inc.**)
- 2009 – 2010 **Wired for Change** – Head advocacy developer
- 2008 – 2009 **Virsona, Inc.** – Chief natural language architect
- 2006 – 2008 **Travelers Network** – CEO and head developer

Experience in assembly, C++ (C, C#, Objective-C), Java, Julia, Lisp, Perl, PHP, Python, Ruby, Matlab, R, SAS, SQL, Stata, VB, XHTML, and .NET. Familiarity with several development frameworks and databases.

## PRESENTATIONS

- 2018 **1st International Conference on Water Security**
- 2018 **Alliance Summer School in Science and Policy**, talk and workshop\*
- 2017 **American Geophysical Union**, Fall Meeting
- 2016 **NBER Summer Institute**, Environmental and Energy Economics Workshop, short talk
- 2016 **Alliance Summer School in Science and Policy**, talk and workshop\*
- 2016 **Columbia University**, Sustainable Development Research Conference
- 2016 **American Geophysical Union**, Ocean Sciences
- 2015 **American Geophysical Union**, Fall Meeting
- 2015 **Global Coffee Forum**
- 2014 **International Institute of Fisheries Economics and Trade**
- 2014 **Columbia University**, Interdisciplinary Ph.D. Workshop in Sustainable Development
- 2014 **American Geophysical Union**, Fall Meeting
- 2013 **Union of Concerned Scientists**, Project Meeting\*
- 2013 **Columbia University**, Interdisciplinary Ph.D. Workshop in Sustainable Development
- 2013 **International Congress for Conservation Biology**, Conservation Conflicts Panelist\*
- 2013 **Earth System Governance Tokyo Conference**, Semi-Plenary Panelist\*
- 2012 **4th International Ecosummit**
- 2012 **Columbia University**, Interdisciplinary Ph.D. Workshop in Sustainable Development
- 2011 **American Geophysical Union**, Fall Meeting
- 2010 **Salsa Users Conference**, Panel Host
- 2007 **Mathworks, Inc.**, Apps Meeting\*

\* Invited presentation

## PROFESSIONAL SERVICE

**Committees:** Climate Change and Environment Research Seminar Series; Grantham Research Institute Public Event Committee.

**Conference organization: AGU Session:** The Future of America's Water: understanding the landscape of water security risk, and addressing the associated societal and economic impacts (co-chair, oral and poster, 2016-2017); Towards better water planning and management in an uncertain world (co-chair, 2018); **Student Conferences:** Sustainable Development Research Conference (co-organizer, Columbia University, 2016); Interdisciplinary Ph.D. Workshop in Sustainable Development (co-organizer, Columbia University, 2014); Science and Policy Summer School (coordinator, Sciences Po, 2012)

**Reviewer:** Journal of Econometrics; Journal of Environmental Economics and Management; Nature Climate Change; Climatic Change; Journal of Conflict Resolution; Economics of Disasters and Climate Change; Environment and Development Economics; Ecological Economics; PLOS One; Conservation Letters