

Nick Obradovich

MIT Media Lab

nobradov@mit.edu | nickobradovich.com

Academic Positions

- 2016-present **Research Scientist**
MIT Media Lab, Scalable Cooperation Group
- 2016-2017 **Postdoctoral Fellow**
Harvard University, Belfer Center for Science and International Affairs

Academic Affiliations

- 2018-present **Research Affiliate** Environmental Solutions Initiative, MIT
- 2016-present **Human-Environmental Systems Fellow** CMBC, Scripps Institution of Oceanography
- 2017-2018 **Associate** Belfer Center, Kennedy School of Government, Harvard University
- 2017-2018 **Associate** Harvard University Center for the Environment

Education

- 2010-2016 **University of California San Diego**
Ph.D. and M.A. in Political Science
- 2005-2009 **Santa Clara University**
B.S. Economics and Environmental Studies, *summa cum laude*
- 2007-2008 **University of Oxford**
Visiting Student in Economics and Geography

Publications

14. **Obradovich, N.**, Migliorini, R., Paulus, M., and Rahwan, I. (2018). Empirical evidence of mental health risks posed by climate change. *Proceedings of the National Academy of Sciences*, 115(43) 10953-10958.
CNN | Grist | Los Angeles Times | Pacific Standard | Salon | US News
13. **Obradovich, N.** and Migliorini, R. (2018). Sleep and the human impacts of climate change. (Guest Editorial). *Sleep Medicine Reviews*.
12. **Obradovich, N.**, Tingley, D., and Rahwan, I. (2018). Effects of environmental stressors on daily governance. *Proceedings of the National Academy of Sciences*, 115(35) 8710.
CNN | Physics World | The Weather Channel | US News
11. Baylis*, P., **Obradovich***, N., Kryvasheyev, Y., Chen, H., Coviello, L., Moro, E., Cebrian, M., and Fowler, J.H. (2018). Weather impacts expressed sentiment. *PLOS ONE*, 13(4), e0195750. (* denotes equal contribution).
MIT Tech Review | Newsweek | Quartz | The Guardian | US News | Weather.com
10. Frank, M., **Obradovich, N.**, Sun, L., Woon, W.L., LeVeck, B., Rahwan, I. (2018). Detecting reciprocity at a global scale. *Science Advances*, 4(eaa05348).
9. Telfer, S., **Obradovich, N.** (2017). Local weather is associated with rates of online searches for musculoskeletal pain symptoms. *PLOS ONE*, 12(8), e0181266.
The Weather Channel | NBC News | Huffington Post

8. **Obradovich, N.**, Migliorini, R., Mednick, S.C., and Fowler, J.H. (2017). Nighttime temperature and human sleep loss in a changing climate. *Science Advances*, 3(e1601555).
NYT | WaPo | LA Times | USA Today | The Atlantic | Science | Bloomberg | AAAS
7. **Obradovich, N.** and Fowler, J.H. (2017). Climate change may alter human physical activity patterns. *Nature Human Behaviour*, 1(0097).
Associated Press | Science | Popular Science | Live Science
6. **Obradovich, N.** (2017). Climate change may speed democratic turnover. *Climatic Change*, 140(2), 135-147.
Reuters | ClimateWire | Springer
5. **Obradovich, N.** and Zimmerman, B. (2016). African voters indicate lack of support for climate change policies. *Environmental Science & Policy*, 66, 292-298.
4. Leas, E.C., Althouse, B.M., Dredze, M., **Obradovich, N.**, Fowler, J.H., Noar, S.M., Allem, J., and Ayers, J.W. (2016). Big data sensors of organic advocacy: The case of Leonardo DiCaprio and climate change. *PLOS ONE*, 11(8), e0159885.
Washington Post | Bloomberg | Forbes | New York Magazine | Time | Slate
3. **Obradovich, N.** and Guenther, S.M. (2016). Collective responsibility amplifies mitigation behaviors. *Climatic Change*, 137(1), 307-319.
Christian Science Monitor | Grist | Huff Post | Pacific Std. | Think Progress | VICE
2. Chacko, G., Evans, C.L., and **Obradovich, N.** (2016). Electoral systems and agricultural critical goods. *Journal of Business and Policy Research*, 11(1), 16-35.
1. Kryvasheyev, Y., Chen, H., **Obradovich, N.**, Moro, E., Van Hentenryck, P., Fowler, J.H., and Cebrian, M. (2016). Rapid assessment of disaster damage using social media activity. *Science Advances*, 2(3), e1500779.
Wall Street Journal | Washington Post | Science | Smithsonian | Grist | The Verge

Fellowships

- 2015-2016 *Frontiers of Innovation Fellowship*, University of California San Diego
- 2012-2013 *Global Change Fellowship*, Scripps Institution of Oceanography
- 2010-2015 *Graduate Research Fellowship*, National Science Foundation
- 2010-2015 *Gramercy Fellowship in Emerging Markets*, University of California San Diego
- 2008-2009 *Hackworth Fellowship*, Santa Clara University
- 2007-2008 *Honors Program Oxford Fellowship*, Santa Clara University
- 2005-2009 *Peace and Justice Fellowship*, Santa Clara University

Honors and Awards

- 2017 *Outstanding Reviewer 2016 for Environmental Research Letters*, IOP Publishing
- 2009 *Nobili Medal* for most outstanding overall male graduate, Santa Clara University
- 2009 *Hazel Award* for most outstanding in Economics, Santa Clara University
- 2009 *Phi Beta Kappa Honor Society* inductee
- 2007 *Visiting Student Prize*, top academic performance, Oxford University
- 2005-2009 *Honors Program Academic Scholarship*, Santa Clara University
- 2005-2009 *Dean's Academic Scholarship* Santa Clara University

Grants

- 2014 *Rural and Latino Americans and Climate Change (\$70,000)*
Skoll Global Threats Fund
- 2014 *Dissertation Improvement Grant: Climate Change and African Elections (\$17,600)*
National Science Foundation
- 2014 *Levin Family Seed Grant: Climate Change and Corruption (\$1,700)*
Center for Effective Global Action, University of California Berkeley
- 2014 *Sanford Lakoff Grant: Climate Change and Elections (\$1,000)*
Department of Political Science, University of California San Diego
- 2013 *XSEDE Computational Research Grant (100,000 SU award)*
National Science Foundation, TG-SES130013
- 2013 *UNFCCC COP Travel and Outreach Grant (\$29,000)*
Center for Marine Biodiversity and Conservation, Scripps Institution of Oceanography
- 2013 *Climate Change Research Challenge Grant (\$5,000)*
Center for Effective Global Action, University of California Berkeley
- 2013 *Dean's Travel Grant for Research Travel to Baja, Mexico (\$600)*
Division of Social Sciences, University of California San Diego
- 2013 *Rural Mexican Voter Response to Environmental Shocks (\$4,000)*
Center for Marine Biodiversity and Conservation, Scripps Institution of Oceanography
- 2012 *Rural Ghanaian Political Behavior (\$12,000)*
Small-scale Artisanal Fisheries Research Network, Scripps Institution of Oceanography

Instruction

- Fall 2017 *Instructor*, Graduate Quantitative Social Science Research Methods, MIT Media Lab
- Spring 2012 *Instructor*, Honors Undergraduate Research Methods, University of California San Diego

Professional Experience

- 2009-2010 *Research assistant* for Edward P. Lazear, Stanford University
- 2008 *Intern* Eco-Technology Program Office, Intel Corporation
- 2007 *Environmental sustainability analyst*, Intel Corporation

Outreach Activities

- 2014-present *Advisory Council Member*, Climate Lab, Skoll Global Threats Fund
- 2017 *How will human beings adapt to a changing climate?* *MIT ClimateX Podcast*.
- 2017 *Why the wiring of our brains makes it hard to stop climate change.* *Los Angeles Times*.
- 2015 *Graduate Student Delegate* for UC San Diego, Graduate Research Day
- 2014 *International Electoral Observer*, Malawian Presidential and Parliamentary Elections
- 2013 *University of California Delegate* to the UNFCCC in Warsaw, Poland
- 2011 *International Electoral Observer*, Ugandan Presidential and Parliamentary Elections

Invited Talks

- 2018 Department of Psychology and Brain Sciences. UMass Amherst. December 2018.
- 2018 Information Science Institute. University of Southern California. October 2018.
- 2018 Information Science Institute. University of Southern California. May 2018.

- 2018 The Society for Affective Science Annual Conference. April 2018.
- 2018 [Center for Complex Network Research](#). Northeastern University. April 2018.
- 2017 International Relations Faculty Colloquium. Princeton University. December 2017.
- 2016 Human Dynamics Group. MIT Media Lab. November 2016.
- 2016 Real Colegio Complutense. Harvard University. November 2016.
- 2016 Center for Marine Biodiversity and Conservation. SIO. UC San Diego. April 2016.

Conferences

- 2018 Moore, F.C., **Obradovich, N.**, and Lehner, F. "[Rapidly-adjusting perceptions of temperature in a changing climate](#)" National Bureau of Economic Research (NBER) Summer Institute. Cambridge, MA. July 2018.
- 2018 Sekara, V., Lee, J., Luengo, M., **Obradovich, N.**, Garcia-Herranz, M., and Moro, E. "Predicting socioeconomic indicators for multiple countries from social media data" International Conference on Computational Social Science. Evanston, IL. July 2018.
- 2018 Frank, M., **Obradovich, N.**, Sun, L., Leveck, B., and Rahwan, I. "Detecting reciprocity at a global scale" International Conference on Computational Social Science. Evanston, IL. July 2018.
- 2018 Epstein, Z., Payne, B.H., Shen, J.H., Hong, C.J., Dubey, A., Felbo, B., Groh, M., **Obradovich, N.**, Cebrian, M., and Rahwan, I. "[TuringBox: An experimental platform for the evaluation of AI systems](#)" International Joint Conference on Artificial Intelligence (IJCAI). Stockholm, Sweden. July 2018. [Awarded Best Video](#).
- 2018 Epstein, Z., Payne, B.H., Shen, J.H., Hong, C.J., Felbo, B., Dubey, A., Groh, M., **Obradovich, N.**, Cebrian, M., and Rahwan, I. "TuringBox: An experimental platform for the evaluation of AI systems" Workshop on Fairness, Accountability, and Transparency in Machine Learning (FAT/ML). Stockholm, Sweden. July 2018.
- 2018 Ash, K. and **Obradovich, N.** "Climatic stress and dissent in competitive authoritarian regimes" International Studies Association. San Francisco, CA. April 2018.
- 2018 Rubenson, D., Dawes, C., and **Obradovich, N.** "Marathon performance and political participation" Midwest Political Science Association. Chicago, IL. April 2018.
- 2018 Enenkel, M., Saenz, S.M., Dookie, D.S., Braman, L., **Obradovich, N.**, and Kryvasheyev, Y. "Social Media Data Analysis and Feedback for Advanced Disaster Risk Management" ([arXiv](#)). International Workshop on Social Web for Disaster Management. Los Angeles, CA. February 2018.
- 2017 **Obradovich, N.**, Felbo, B., Yanardag, P., Borsa, A., Burney, J.A., Jones, J.J., and Rahwan, I. "The effects of climatic events on expressed climate change belief" American Political Science Association. San Francisco, CA. August 2017.
- 2017 Guenther, S. and **Obradovich, N.** "Experimental induction of interpersonal trust demobilizes political efforts" American Political Science Association. San Francisco, CA. August 2017.
- 2017 Ash, K. and **Obradovich, N.** "Climatic stress, internal migration, and Syrian civil war onset" American Political Science Association. San Francisco, CA. August 2017.
- 2017 Abeliuk, A., Fernández, A., **Obradovich, N.**, and Rahwan, I. "Modeling the evolution of political ideologies" International Conference on Computational Social Science. Cologne, Germany. July 2017.

- 2017 Kim, R., Felbo, B., **Obradovich, N.**, and Rahwan, I. "Quantifying structural factors affecting racial tensions during 2016 US presidential election" International Conference on Computational Social Science. Cologne, Germany. July 2017.
- 2017 Ash, K. and **Obradovich, N.** "Climatic stress, internal migration, and Syrian civil war onset" International Studies Association. Baltimore, MD. February 2017.
- 2016 "Empirical estimation of climate adaptation in human-environmental systems" American Geophysical Union Fall Meeting. San Francisco, CA. December 2016. Session chair.
- 2016 **Obradovich, N.** "Climate change may speed democratic turnover" Western Political Science Association Annual Meeting. San Diego, CA. March 2016.
- 2014 Chacko, G., Evans, C.L., and **Obradovich, N.** "Electoral systems and critical goods", Best Paper Award, Economics. Annual Tokyo Business Research Conference. Tokyo, Japan. August 2014.
- 2013 **Obradovich, N.** "Weather and how to vote: climatic variations and rural voter behavior" Conference for Sustainability IGERTs. Portland, OR. September 2013.

Professional Memberships

American Political Science Association, American Geophysical Union

Academic Service

Reviewer Association for the Advancement of Artificial Intelligence; Climatic Change; Environmental Research Letters; Environmental Science & Policy; Frontiers in Big Data; Frontiers in Earth Science; IEEE Intelligent Systems; Nature Human Behaviour; PLOS ONE; Proceedings of the National Academy of Sciences; Risk Analysis; Science Advances; Sleep Medicine Reviews; Weather, Climate, and Society

Fieldwork

Ghana, Malawi, Mexico, South Africa, Uganda

Languages

R, Bash, \LaTeX , Markdown, HTML5, CSS3

Updated December 3, 2018