

Matthew R. Smith

3514 E Spruce Street

Seattle, WA 98122

☎ Cell :: 559.789.5635

✉ msmith@hsph.harvard.edu

EDUCATION

- 2005–2012 **Ph.D., Geological Sciences**, *University of Washington*, Seattle, WA.
Advisors: Alan Gillespie & Josh Bandfield
- 2001–2005 **B.S., Geological Sciences**, *University of Southern California*, Los Angeles, CA.
Honors: Magna Cum Laude
Research Advisor: Frank Corsetti

RESEARCH EXPERIENCE

- Jul 2018–Present **Research Associate**, *Harvard University*.
Ongoing modeling of diets and nutrition to assess the role of current and future global environmental changes on access to adequate food and nutrition in a changing world
- 2014–2018 **Postdoctoral Research Fellow**, *Harvard University*.
Dietary and nutritional modeling to investigate the role of different environmental stressors on nutritional adequacy
- 2012–2014 **Analyst**, *Lake Partners Strategy Consultants*.
Assessing effect of political and practical barriers to growing agricultural programs in developing countries.
- 2006–2012 **Research Assistant**, *University of Washington*.
Using satellite and ground measurements to characterize the geological history of Mars and Earth.
- 2009–2012 **Assistant Editor**, *Quaternary Research*.
Review articles for clarity, content and correct grammar; manage peer-review process by communicating with authors, editors, and reviewers and issue decisions based on reviewer recommendations.

PUBLICATIONS

Inadequate zinc intake in India: Past, present, and future

MR Smith, R DeFries, A Chhatre, S Ghosh-Jerath, and SS Myers, *Food and Nutrition Bulletin*, 40(1), 2019.

Predicting nutrient content of ray-finned fishes using phylogenetic information

B Vaitla, D Collar, **MR Smith**, SS Myers, BL Rice, and CD Golden, *Nature Communications*, 9(1), 2018.

Impact of historical changes in coarse cereals consumption in India on micronutrient intake and anemia prevalence

R DeFries, A Chhatre, KF Davis, A Dutta, J Fanzo, S Ghosh-Jerath, SS Myers, ND Rao, and **MR Smith**, *Food and Nutrition Bulletin*, 39(3), 2018.

Impact of anthropogenic CO₂ emissions on global human nutrition

MR Smith and SS Myers, *Nature Climate Change*, 8(9), 2018.

Trade and the equitability of global food nutrient distribution

SA Wood, **MR Smith**, J Fanzo, R Remans and R DeFries, *Nature Sustainability*, 1(1), 2018.

Does aquaculture support the needs of nutritionally vulnerable nations?

CD Golden, KL Seto, MM Dey, OL Chen, JA Gephart, SS Myers, **MR Smith**, B Vaitla, EH Allison, *Frontiers in Marine Science*, 4, 2017.

Anthropogenic carbon dioxide emissions may increase the risk of global iron deficiency

MR Smith, CD Golden, and SS Myers, *GeoHealth*, 2017. doi:10.1002/2016GH000018

Global trends in dietary micronutrient supplies and estimated prevalence of inadequate intakes

T Beal, E Massiot, JE Arsenault, **MR Smith**, and RJ Hijmans, *PLOS ONE*, 12(4), e0175554, 2017.

Climate change and global food systems: Potential impacts on food security and undernutrition

SS Myers, **MR Smith**, S Guth, CD Golden, B Vaitla, ND Mueller, AD Dangour, and P Huybers, *Annual Reviews of Public Health*, 38, 259-277, 2017.

Nutrition: Fall in fish catch threatens human health

Golden CD, EH Allison, WWL Cheung, MM Dey, BS Halpern, DJ McCauley, **MR Smith**, B Vaitla, D Zeller, and SS Myers, *Nature*, 534, 317-320, 2016.

Global Expanded Nutrient Supply (GENuS) Model: A new method for estimating the global dietary supply of nutrients

MR Smith, R Micha, CD Golden, D Mozaffarian, and SS Myers, *PLOS ONE*, 2016.

Impact of animal pollinator declines on human nutrition and global health

MR Smith, GM Singh, D Mozaffarian, and SS Myers, *The Lancet*, 2015.

Hydrated silica on Mars: Combined analysis with near-infrared and thermal-infrared spectroscopy

MR Smith, JL Bandfield, EA Cloutis, and MS Rice, *Icarus*, 2013.

Geology of quartz and hydrated silica-bearing deposits near Antoniadi Crater, Mars

MR Smith and JL Bandfield, *Journal of Geophysical Research (Planets)*, 2012.

In-scene atmospheric correction of hyperspectral thermal infrared images with nadir, horizontal and oblique view angles

MR Smith, AR Gillespie, H Mizzon, L Balick, JC Jiménez-Muñoz, and JA Sobrino, *International Journal of Remote Sensing*, 2012.

Crater-fault interactions: A metric for dating fault zones on planetary surfaces

MR Smith, AR Gillespie, DR Montgomery, and J Batbataar, *Earth and Planetary Science Letters*, 284, p. 151-156, 2009.

Effect of obliteration on crater-count chronologies for Martian surfaces

MR Smith, AR Gillespie, and DR Montgomery, *Geophysical Research Letters*, 35, L10202, 2008.

