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Education

Ph.D. Earth and Planetary Science, Harvard University, 2015.
M.A. Physics, Wesleyan University, 2005
B.A. Physics and College of Letters with Honors, Wesleyan University, 2004.
Moscow State Univeristy of Humanities, Spring 2002.

Employment

University of Minnesota, Post-doctoral Associate, 2015-
Harvard University, Research Fellow, 2008-2015
Harvard University, Teaching Fellow: Global Warming Debates (2010), Great Papers in Earth Science (2011 & 2013), Our Fluid Earth: Introduction to atmosphere and oceans (2012)
North Star Academy, Science Teacher: Biology, Chemistry, Physics, Computer Science, Algebra, Geometry, Algebra-Trigonometry, 2006-2008.
University of Liberal Arts Bangladesh, Lecturer: World Civilization, 2006.
Wesleyan University, Research Assistant, 2001-2005

Research

Peer-Reviewed Journal Articles

Butler, E. E. and P. Huybers. Adaptation of US maize to temperature variations. *Nature Climate Change*, **3**, (2013).
Butler, E. E. and P. Huybers. Response to Comment on: Adaptation of US maize to temperature variations. *Nature Climate Change*, **3**, (2013).
d'Alpoim Guedes, J. and E. E. Butler. Modeling constraints on the spread of agriculture to Southwest China with thermal niche models. *Quaternary International* (2014).
Butler, E. E. and P. Huybers. Variations in the sensitivity of US maize to extreme temperatures by region and growth phase. *Environmental Research Letters*, **10**, (2015).
d'Alpoim Guedes, J., R. K. Bocinsky, and E. E. Butler. Comment on "Agriculture facilitated permanent occupation of the Tibetan Plateau after 3600 B.P." *Science*, **348**, 6237, (2015)
Mueller, N.. D., E. E. Butler, K. A. McKinnon, A. Rhines, M. Tingley, N. M. Holbrook, P. Huybers. Cooling of US Midwest summer temperature extremes from cropland intensification. *Nature Climate Change* (2015)

Work in Progress

Butler, E. E., A. Datta, H. Flores Moreno, F. Fayazeli, M. Chen, K. Wythers, O. Atkin, A. Banerjee, J. Kattge, P. Reich. Estimating global distributions of plant traits.

Butler, E. E., N. D. Mueller, and P. Huybers. Trends in thermal time during US maize development phases.

Conference Presentations

American Geophysical Union Annual Conference

Food Crops' Response to Climate Change (2009)

Historical Weather Conditions and Maize Yields (2010)

Spatial and Temporal Sensitivity of US Maize Yields to Climate Variability (2011)

Has climate change shifted US maize planting times? (2012)

Variable sensitivity of US maize yield to high temperatures across developmental stages (2013)

Whole season compared to growth-stage resolved temperature trends: implications for US maize yield (2014)

Ecological Society of America Annual Conference

Climate Variation and Prediction of US Maize Planting Dates (2012)

Spatial Variation of US Maize Developmental Sensitivity (2013)

Variation in maize developmental sensitivity to temperature (2014)

Trends in thermal time during US maize development phases (2015)

Graduate Climate Conference

US Maize Yield: From Spatial to Temporal Temperature Adaptation (2011)

Session Chair: Society and Climate (2012)

co-Session Chair: Terrestrial Ecology (2013)

Yale Food Systems Symposium

Global Warming and US Maize Production (2013)

Climate: Science and Humanities

Food Crops Response to Climate Change (2010)

Atmosphere and Ocean Science Days

Antarctic Sea Ice: Some paleoclimate and orbital motivation and a thermodynamic model (2009)

Invited Presentations

Boston Museum of Science: Climate Modeling Basics and Applications to Crops (2009)

Roxbury Community College: An Empirical Toy Model of Crop Yields: The Importance of Spatial Adaptation (2009)

Harvard School of Public Health: US Maize Yield from Spatial to Temporal Adaptation (2012)

Boston University School of Public Health: Adapting Agriculture to a Warmer World (2013)

University of Pennsylvania School of Design: Modeling Urbanization: Land Use Transformation, Climate Change, and Resilience (2014)

Harvard University: Plants and Humans, Climate Change and Agriculture (Nov. 2014)

Professional Development

Hebrew University in Jerusalem Winter School: Reducing Uncertainty in Global Warming (2009)

Istituto Veneto di Scienze Lettere ed Arti Summer School: Biogeodynamics and Earth System Science (2010)

National Centre of Competence in Research - Climate Summer School: Climate Change, Extremes and Ecosystem Services (2011)

Professional Activities

Reviewer for:

Nature Climate Change

Global Change Biology

Agricultural and Forest Meteorology

Global Change Biology - Bioenergy

Agriculture, Ecosystems, and Environment

Journal of Earth Science and Climatic Change

Journal of Forest Research: Open Access

Member, American Geophysical Union, 2009–Present.

Member, Ecological Society of America, 2012–Present.

Curriculum Development: World Civilization and The History and Methodology of Scientific Thought.
Both developed for the University of Liberal Arts Bangladesh

Science in the News, Public Presentation and webcast: Extreme Weather

Plants and Climate Journal Club, founder and organizer, 2009–2013

ClimaTea Journal Club, graduate student coordinator, 2010

Honors, Awards, & Fellowships

Think Swiss Travel Grant (2011)

Bok Center Teaching Award (2010 & 2013)