

# RADOST STANIMIROVA

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## CONTACT INFORMATION

Boston, MA 02139 USA

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## RESEARCH INTERESTS

My professional and research interests include climate variability and human transformation of the landscape, especially through agriculture.

## EDUCATION

**Boston University**, Boston, Massachusetts, USA

Ph.D., Geography, (expected graduation date: May 2019)

Dissertation Title: *Dynamics of Global Rangelands: Modeling Vulnerabilities and Monitoring Impacts from Humans and Climate Variability*

**Barnard College of Columbia University**, New York, New York, USA

B.A., Environmental Science, May 2012

Minors: Anthropology

Senior Thesis: *Organic Carbon Transport through Holocene and Pleistocene Sediment in Southeast Asia: Implications for Arsenic Mobilization*

## ACADEMIC EXPERIENCE

**Department of Earth and Environment**

**Boston University**, Boston, Massachusetts, USA

*Graduate Research Assistant*

**January, 2015 - Present**

- Create an empirical model that quantifies the spatially explicit sensitivity of global pasturelands to both short- and long-term climate variations
- Process MODIS reflectance timeseries to extract and map start-of-season and end-of-season phenophase transition dates
- Compare and interpret spring phenology estimated from two methods, TIMESAT and MODIS Land Cover Dynamics Product (MCD12Q2)

*Teaching Fellow*

**Fall 2014, Fall 2016 & Spring 2017**

- Instruct weekly lab lectures for up to 60 students introducing concepts and experiments for natural environment courses
- Facilitate weekly review sessions, evaluate students and provide them with feedback
- Design and implement weekly in-class worksheets and homeworks

**International Research Institute for Climate and Society, Earth Institute**

**Columbia University**, New York, New York, USA

*Research Staff Assistant*

**June, 2012 - July, 2014**

- Provided research support for a variety of climate risk management implementation projects relating to remote sensing, agriculture and index insurance
- Wrote effective grant proposals and budgets for donor organizations including World Bank, World Food Programme and NASA
- Prepared interim and final narrative reports per funders requirements
- Facilitated in-region capacity building workshops in English and Spanish

**Department of Environmental Sciences**

**Barnard College of Columbia University**, New York, New York, USA

*Research Assistant*

**June, 2010 - May, 2012**

- Investigated the role of geochemistry in arsenic contamination of groundwater in Bangladesh and authored a 40 page thesis paper regarding the subject

- Developed a procedure for column experiments on sediment cores in collaboration with research mentor and a team of graduate students
- Executed laboratory experiments independently, performed detailed laboratory tasks, collected and analyzed data and conducted literature research

**School for Field Studies, Atenas, Costa Rica**

*Research Assistant*

**January, 2011 - May, 2011**

- Participated in a directed research project that utilized statistical and field research techniques
- Authored a 30 page research paper on the relationship between soil coverage and soil carbon sequestration on traditional and sustainable coffee plantations
- Collected field samples in order to determine if organic agroforestry systems are an appropriate strategy for reduction of emissions by deforestation and degradation

**HONORS AND AWARDS**

NASA Earth and Space Science Fellowship, 2017-present (\$30,000/year)  
 Young Scientists Summer Program, International Institute for Applied Systems Analysis, Austria, Summer 2017 (\$6,000)  
 Graduate Summer Fellowship, Frederick S. Pardee Center for the Study of the Longer-Range Future, Boston University, Summer 2016 (\$6,000)  
 Biogeoscience Symposium Outstanding Elevator Pitch Award, Boston University, 2016  
 Dean's Fellowship, GRS Graduate Fellowship, Boston University, Spring 2015 (\$10,250)  
 The Lillian Berle Dare Prize for advanced study in Geography, Barnard College, 2012 (\$500)  
 Hughes Science Pipeline Project, Barnard College, 2010-2011 (\$3,000)

**JOURNAL PUBLICATIONS**

**Stanimirova, R.**, Z. Cai, E. Melaas, J. Gray, L. Eklundh, P. Jonsson, & M. Friedl (2016 in preparation) An Empirical Assessment of the MODIS Land Cover Dynamics and TIMESAT Land Surface Phenology Algorithms. Institute of Electrical and Electronics Engineers

Vasilaky, K., S. Martinez, **R. Stanimirova**, & D.E. Osgood (2016 in review) Informal Networks within Index Insurance: Randomizing Distance in Group Insurance. Journal of Economic Behavior and Organization

**CONFERENCE PUBLICATIONS**

**Stanimirova, R.**, Z. Cai, E. Melaas, J. Gray, L. Eklundh, P. Jonsson, & M. Friedl. An Empirical Assessment of the MODIS Land Cover Dynamics and TIMESAT Land Surface Phenology Algorithms. Oral Presentation, American Geophysical Union (AGU), San Francisco, CA. December 2016

**Stanimirova, R.**, J. Sun, B. Bostick, B. Mailloux, C. Mulvihill, A. van Geen, I. Mihajlov, K.M. Ahmed, I. Choudhury, M. Stute, & J. Magyar. Organic Carbon Transport through Holocene and Pleistocene Sediment from Southeast Asia: Implications for Arsenic Mobilization. Poster Presentation, American Geophysical Union (AGU), San Francisco, CA. December 2013

**LANGUAGES**

Fluent in Bulgarian

Full Professional Proficiency in Spanish

**COMPUTER SKILLS**

Statistical Packages: R, JAGS

Programming Languages: HTML, Bash, some experience with Matlab

Applications: ArcGIS, QGIS, L<sup>A</sup>T<sub>E</sub>X, Microsoft Suite, Final Cut

Software: [www.github.com/rkstan](http://www.github.com/rkstan)

**MEMBERSHIP**

American Geophysical Union

Association for Women in Science Massachusetts Chapter