

**CURRICULUM VITAE****Evan A. Ellicott**

Department of Geographical Sciences  
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**1 Personal Information****Appointments and Employment**


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2010 – Present	Assistant Research Professor, Geographical Sciences, University of Maryland
2009 – 2010	Research Associate, Geographical Sciences, University of Maryland
2009	Faculty Research Assistant, Geographical Sciences, University of Maryland
2004 – 2009	Graduate Research Assistant, Geographical Sciences, University of Maryland
2002 – 2005	GIS Analyst, PBS&J Consulting, Beltsville, Maryland

**Education**


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Ph.D. Geography, University of Maryland, College Park, MD, USA	2009
<i>Dissertation:</i> Estimating Organic and Black Carbon Aerosol Emissions from Biomass Burning Using Fire Radiative Power	
B.S. Environmental Science, State University of New York at Albany, Albany, NY, USA	1996
<i>Thesis:</i> Prescribed Fire Effects on Herbivore Movements and Browse Preference in the Albany Pine Bush	
B.A. Geography, State University of New York at Albany, Albany, NY, USA	1996

**Continuing Education**

Graduate Certificate in GIS, Department of Geographical Sciences, University of Maryland, College Park, MD, USA	2015
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**2 Research, Scholarly, and Creative Activities****Journal Publications**

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- Lasko, K., Vadrevu, K., Tran, V., **Ellicott, E.**, Nguyen, T., Bui, H., Justice, C., (2017). Satellites may underestimate rice residue and associated burning emissions in Vietnam. *Environmental Research Letters*, (accepted, May 2017)
  - Csiszar, W. Schroeder, L. Giglio, **E. Ellicott**, B. Wind, K. Prasad Vadrevu, and C. Justice, (2014) Active Fires from the Suomi NPP Visible Infrared Imager Radiometer Suite: Product status and first evaluation results. *J. Geophys. Res. Atmos.*, 119, doi: 10.1002/2013JD020453.
  - W. Schroeder, **E. Ellicott**, C. Ichoku, L. Ellison, M. Dickinson, R. Ottmar, C. Clements, D. Hall, V. Ambrosia, and R. Kremens, (2014), Integrated active fire retrievals and biomass burning emissions using complementary near-coincident ground, airborne and spaceborne sensor data. *Remote Sensing Environment*. doi: <http://dx.doi.org/10.1016/j.rse.2013.10.010>.
  - J. McCarty, **E. Ellicott**, V. Romanenkov, and D. Rukhovitch, (2012), Multi-year black carbon emissions from cropland burning in the Russian Federation. *Atmospheric Environment*, 63, 223-238. doi:10.1016/j.atmosenv.2012.08.053.

- K. Prasad Vadrevu, I. Csizsar, **E. Ellicott**, L. Giglio, K.V.S. Badarinath, E. Vermote, and C. Justice (2012), Hotspot Analysis of Vegetation Fires and Intensity in the Indian Region, *IEEE Journal of selected topics in Earth Observations and Remote Sensing*, 6, 224-238, doi:10.1109/JSTARS.2012.2210699
- K. Prasad Vadrevu, **E. Ellicott**, L. Giglio, K.V.S. Badarinath, E. Vermote, C. Justice, and W.K. Lau (2012), Vegetation fires in the Himalayan region: Aerosol load, black carbon emissions and smoke plume heights, *Atmospheric Environment*, 47, 241-251, doi:10.1016/j.atmosenv.2011.11.009.
- K. Prasad Vadrevu, **E. Ellicott**, K.V.S. Badarinath, E. Vermote (2011), MODIS derived fire characteristics and aerosol optical depth variations during the agricultural residue burning season, north India, *Environmental Pollution*, 159, doi:10.1016/j.envpol.2011.03.011.
- **E. Ellicott**, E. Vermote, F. Petitcolin, and S. Hook (2009), Validation of new parametric model for atmospheric correction of thermal infrared data, *IEEE Transactions on Geoscience and Remote Sensing*, 47(1), p295-311.
- **E. Ellicott**, E. Vermote, L. Giglio, and G. Roberts (2009), Estimating the total fire radiative energy emitted from biomass burning using MODIS, *Geophysical Research Letters*, 36, L13401, doi:10.1029/2009GL038581.
- E. Vermote, **E. Ellicott**, O. Dubovik, T. Laypyonok, M. Chin, L. Giglio, and G. Roberts (2009), An approach to estimate global biomass burning emissions of Organic and Black Carbon from MODIS Fire Radiative Power, *Journal of Geophysical Research*, 114, D18205, doi:10.1029/2008JD011188.

### Technical Reports

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- Gollner, M., Trouve, A., Altintas, I., Block, J., de Callafon, R., Clements, C., Cortes, A., **Ellicott, E.**, Filippi, J.B., Finney, M. and Ide, K., (2015). Towards Data-Driven Operational Wildfire Spread Modeling: A Report of the NSF-Funded WIFIRE Workshop.

### Book Chapters

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- **E. Ellicott** and E. Vermote (2011): The science and application of satellite based fire radiative energy, in *Remote Sensing of Biomass: Principles and Applications – Book 1*, edited by L. Fatoyinbo, ISBN 978-953-307-780-2, InTech Open Access Publisher, Croatia.

### Selected Presentations

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- **E. Ellicott**, M. Gollner, R. Kremens, W. Schroeder; International Association of Wildland Fire Conference, April 14, 2016, “Examination of pyrophytic plant combustion and the relationship between fuel moisture, energy released, and emissions emissions.”
- **E. Ellicott**, I. Csizsar, W. Schroeder, L. Giglio, C. Justice; NOAA 2015 Satellite Conference, April 29, 2015, “The VIIRS Active Fire Data for Fire Management: A review of the Proving Ground and Risk Reduction (PGRR) Project efforts”
- I. Csizsar, W. Schroeder, L. Giglio, **E. Ellicott**; NOAA 2015 Satellite Conference, April 29, 2015, “Latest developments related to the improvement of the operational NOAA VIIRS active fire product”
- **E. Ellicott**, A. de Bremond, K. Feng, K. Hubacek; Association of American Geographers (AAG) Annual Meeting, April 23, 2015, “Large-Scale Land Acquisitions and Land Cover Change: Case Studies from Cambodia and Indonesia”.
- A. de Bremond, **E. Ellicott**, K. Feng, K. Hubacek; World Bank Land & Poverty Meeting, March 26, 2015, “Understanding LSLAs and their Land Change Dimensions: Towards socio-environmental synthesis of the global ‘rush for land’”.

- **E. Ellicott**, I. Csiszar, L. Giglio, W. Schroeder, K. Vadrevu, C. Justice; the National Interagency Fire Center (NIFC) Annual Predictive Services Annual Meeting, November 22-24th, 2014, “VIIRS and MODIS Active Fire Products”.
- **E. Ellicott**, I. Csiszar; GOES-R and JPSS OCONUS R2O Interchange Meeting, July 31, 2014, “Fire and Smoke Initiative”.
- I. Csiszar, **E. Ellicott**, C. Schmidt; JPSS Proving Ground Seminar, April 21, 2014, “JPSS and GOES-R activities supporting 2013 fire outbreaks”.
- **E. Ellicott**, I. Csiszar, P. Roehr, B. Quayle, L. Giglio, W. Schroeder, K. Vadrevu, C. Justice; American Meteorological Society’s Annual Meeting, February 6<sup>th</sup>, 2014, “Suomi NPP (SNPP) Visible Infrared Imaging Radiometer Suite (VIIRS) Active Fire Data for Fire Management and Fire Weather Applications”.

### 3 Teaching, Mentoring, and Advising

#### a. Teaching

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2014 - *Land Use, Climate Change, and Sustainability (GEOG 415)*  
 2012 - *Land Use, Climate Change, and Sustainability (GEOG 415)*  
 2011 - *Land Use, Climate Change, and Sustainability (GEOG 415)*  
 2010 - *Land Use and Land Cover Change (GEOG 615)*  
 2010 - *Land Use, Climate Change, and Sustainability, (GEOG 415)*  
 2009 - *Land Use, Climate Change, and Sustainability (GEOG 415)* Co-Instructor  
 2009 - *Geography of Environmental Systems (GEOG 201)* Co-Instructor  
 2008 - *Land Use, Climate Change, and Sustainability, (GEOG 415)* Co-Instructor.  
 2007 - *Introduction to Geographic Information Systems (GEOG 373)*, TA  
 2006 - *Geography Tutor: Academic Support & Career Development Unit*

#### b. Advising

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- Nathaniel May, MS 2017. Thesis: *Moisture content effects on energy and emissions released during combustion of pyrophytic vegetation*
- Heather Levine, BS 2019. Civil and Environmental Engineering. Worked on lab experiments investigating fuel-type influence on radiative energy released during combustion

#### c. Mentoring

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Assisted two (2) former students navigate the graduate school selection and admission process, including discussion of their rationale to attend graduate school, choice of program/school, and review of their admission package. I also wrote letters of recommendations for each. Both students were accepted to their top choices

- Sarah Halterman (UCLA)
- Supriya Khadke (Clark University)

#### Awards

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Council on Environment (ConE) Interdisciplinary Seed Grant	2/14 – 6/16
NASA Earth Systems Science Fellow	8/07 – 7/09
Distinguished Teaching Assistant, University of Maryland	2008 – 2009
Sigma Xi poster presentation award, 1 <sup>st</sup> place	11/08
Jakob K. Goldhaber Travel Grant	4/08
Honorable Mention, AAG Student Oral Presentations	4/07
Graduate Research Interaction Day (GRID), 2 <sup>nd</sup> place	4/07

## **4 Service**

### **Service**

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- Chair - College of Behavioral and Social Science Sustainability Committee (2016 - )
- Faculty advisor for the BSOS Sustainability Task Force (STF) in 2017-18
- UMD Senator (2016 – 2019)
- UMD Senate Executive Committee member (2016-2017)
- Reviewer for Remote Sensing of Environment, IEEE, and International Journal of Wildland Fire
- Co-coordinator for College of Behavioral and Social Sciences (BSOS) Sustainability Action Plan
- Developed and Coordinate the Geography Sustainability Task Force
- Green Office Program coordinator for Department of Geographical Sciences

### **Profession Memberships**

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- Sigma Xi, Scientific Research Society
- Association of American Geographers (AAG)
- American Geophysical Union (AGU)
- International Association of Wildland Fire