Curriculum Vitae

Notarization. I have read the following and certify that this *curriculum vitae* is a current and accurate statement of my professional record.

Signature  Date 10/4/2024

I. Personal Information

I.A. 107440792, Ellicott, Evan, Andrew,
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301-405-5189
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I.B. Academic Appointments at UMD

II. *Associate Research Professor, Geographical Sciences,* *2018 – Present*
Assistant Research Professor, Geographical Sciences, *2010 – 2018*
Research Associate, Geographical Sciences, *2009 – 2010*
Faculty Research Assistant, Geographical Sciences, *2009*
Graduate Research Assistant, Geographical Sciences, *2004 – 2009*

II.A. Other Employment

GIS Analyst - PBS&J, Beltsville, MD *2003 – 2004*
GIS Specialist - Hydrogeologic, Herndon, VA *2002*
Imaging Technician - Kenney Aerial Mapping, Phoenix, AZ *2001*

II.B. Educational Background

Ph.D. Geography, University of Maryland, College Park, MD, USA *2009*
B.S. Environmental Science, State University of New York, Albany, NY, USA *1996*
B.A. Geography, State University of New York, Albany, NY, USA *1996*

II.C. Continuing Education

Graduate Certificate in GIS, Department of Geographical Sciences, University of Maryland, College Park, MD, USA *2015*

II.D. Professional Certifications, Licenses, and Memberships

Association of American Geographers (AAG)
American Geophysical Union (AGU)
International Association of Wildland Fire

III. Research, Scholarly, Creative and/or Professional Activities

III.A. Book Chapters

III.A.1. L. Giglio, D. Roy, M. Humber, **E. Ellicott**, M. Zubkova, C.O. Justice (2023): Mapping and Characterizing Fire, in Landscape Fire, Smoke, and Health: Linking Biomass Burning Emissions to Human Well-Being, edited by T.V. Loboda, N.H.F. French, R.C. Puett, ISBN 1119757002, Wiley Publishing, NY, USA.

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.

III.B. Refereed Journals

III.B.1. Refereed Journal Articles

- H. Song, M. Liang, N. Sieck X. He, Q. Nguyen, **E. Ellicott,** H. Hao, X-Z. Liang, J. Raimann, P. Desai, F. Maddux, P. Kotanko, A. Sapkota. (in prep). Exposure to Wildfire Smoke and Risk of Mortality and Hospitalization among Hemodialysis Patients in the Western U.S.: Effect Modification by Extreme Heat Events.
- M. Yoder, **E. Ellicott**, S. Lorch, M. Boudreaux (in prep). Prevalence and National Trends in Wildfire Smoke Exposure Among Infants. *The Journal of the American Medical Association Pediatrics.*
- **E. Ellicott,** A. de Bremond, K. Hurni, S. Eckhert (in prep). Understanding land change impacts of the global demand for land: an assessment of current tools and methods for characterizing land cover and land use change associated with large-scale land acquisitions. Submission pending to Ecology & Society Special Issue.
- M. Maldarelli, H. Song, C. Brown, M. Situt, C. Reilly, A. Mahurkar, V. Felix, J. Crabtree, **E. Ellicott**, M. Jurczak, B. Pant, A. Gumel, Z. Zafari, W. D'Souza, A. Sapkota, B. Maron (in revision). Polluted Air Spread by Remote Canadian Wildfires to the Eastern U.S. is Associated with Cardiopulmonary Disease. *The Journal of the American Medical Association (JAMA) Open Network.*
- H. Song, M. Liang, N. Sieck, H. Lin, J. Raimann, P. Desai, F. Maddux, H. He, **E. Ellicott,** X. He, Q. Nguyen, X-Z. Liang, P. Kotanko, A. Sapkota (submitted). The 2023 Canadian Wildfires and Risk of Mortality/Hospitalization Among U.S. Hemodialysis Patients. *Proceedings of the National Academy of Sciences (PNAS)*
- M. Boudreaux, M. Yoder, **E. Ellicott**, M. Passarella, S. Lorch (in revision). Perinatal Health Care Resources and Wildfire Smoke. American Journal of Obstetrics & Gynecology
- T. Liu, F. Panday, M. Caine, M. Kelp, D. Pendergrass, L. Mickley, **E. Ellicott**, M. Marlier, R. Ahmadov, E. James (2024) Is the smoke aloft? Caveats regarding the use of the Hazard Mapping System (HMS) smoke product as a proxy for surface smoke presence across the United States. *International Journal of Wildland Fire.* https://doi.org/10.1071/WF23148
- N. Magliocca, **E. Ellicott**, M.L. Ingalls, M. Epprecht, C. Hett, V. Nanhthavong, A. de Bremond (2022) Spatio-temporal unevenness in local land system regime shifts caused by land deals in Lao PDR. *Ecology & Society, 27(4)*, https://doi.org/10.5751/ES-13405-270407
- N. Magliocca, A. de Bremond, **E. Ellicott**, L. Seghezzo, C. Venecia, M. Jesús Moscario, C. Nolte (2022) Two of a kind? Large-scale land acquisitions and commodity frontier expansion in Argentina's Dry Chaco. *Ecology and Society* 27 (2):25. https://www.ecologyandsociety.org/vol27/iss2/art25/
- M. Zubkova, L. Giglio, M.L. Humber, J.V. Hall, **E. Ellicott** (2021) Conflict and Climate: Drivers of Fire Activity in Syria in the Twenty-First Century. *Earth Interactions, 25(1)*, https://doi.org/10.1175/EI-D-21-0009.1
- N. Magliocca, Q.V. Khuc, A. de Bremond, **E. Ellicott** (2020) Direct and indirect land-use change caused by large-scale land acquisitions in Cambodia. *Environ. Res. Lett.,* 15(2), https://doi.org/10.1088/1748-9326/ab6397.

- N. Magliocca, Q.V. Khuc, A. de Bremond, **E. Ellicott** (2019) Archetypical pathways of land-use change driven by Cambodia's large-scale land acquisitions. Ecology & Society, 24(2): 25. [online] URL: https://www.ecologyandsociety.org/vol24/iss2/art25/
- N. May, **E. Ellicott**, M. Gollner (2019). An examination of fuel moisture, energy release, and emissions during laboratory burning of live wildland fuels. Int. J. Wildland Fire., https://doi.org/10.1071/WF18084
- K. Lasko, K. Vadrevu, V. Tran, **E. Ellicott**, T. Nguyen, H. Bui, C. Justice (2017). Satellites may underestimate rice residue and associated burning emissions in Vietnam. Environ. Res. Lett., 12, https://doi.org/10.1088/1748-9326/aa751d.
- I. 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. Csiszar, **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.

III.B.2. Invited Reviews of Journal Articles

- Nature Ecology & Evolution (2024). Manuscript Number: NATECOLEVOL-24010189A, Increasing intensity of the most extreme wildfires on Earth
- Remote Sensing of Environment (2019). Manuscript Number: RSE-D-19-00490, A novel procedure combining ground-based Equivalent Black Carbon and satellite data to identify biomass burning and other sources of Black Carbon

- Remote Sensing of Environment (2017). Manuscript Number: RSE-D-17-00303R1, *Predicting the minimum height of forest fire smoke within the atmosphere using machine learning and data from the CALIPSO satellite.*
- International Journal of Wildland Fire (2017). Manuscript Number: WF17137, *Evaluating the mid-infrared bi-spectral 1 index for improved assessment of low-severity fire effects in a conifer forest.*
- Remote Sensing of Environment (2017). Manuscript Number: RSE-D-16-01421R1, *Detecting high and low-intensity fires in Alaska using VIIRS I-band data: an improved operational approach for high latitudes.*
- PLOS One (2016). Manuscript Number: PONE-D-16-26637, *Global analysis of fire characteristics and the interplays among environmental factors*.
- Scientific Data (2015). Manuscript Number: SDATA-15-00115A, *Unprecedented remote sensing data from before and after California King and Rim Megafires*.
- Fire Safety Journal (2014). *Manuscript Number: FISJ-D-14-00247, An App-driven Solution for Targeted Fire Detection Worldwide using Satellites with Near-Real-Time Response Capabilities.*

III.C. Conferences, Workshops, and Talks

III.C.1. Invited Talks

- M. Maldarelli, H. Song, C. Brown, M. Situt, C. Reilly, A. Mahurkar, V. Felix, J. Crabtree, **E. Ellicott**, M. Jurczak, B. Pant, A. Gumel, Z. Zafari, W. D'Souza, A. Sapkota, B. Maron, American Thoracic Society International Conference, May 17-22, 2024 in San Diego, CA, "Polluted Air Spread by Remote Canadian Wildfires to the Eastern U.S. is Associated with Cardiopulmonary Disease."
- H. Song, N. Sieck, J.G. Raimann, P. Kotanko, F.W. Maddux, H. He, **E. Ellicott**, A. Sapkota, International Society of Environmental Epidemiology Conference, Taiwan, September 17-21, 2023, "Impact of Wildfire-related PM2.5 and Extreme Heat Event Exposure on the Risk of Hospitalization and Mortality among Hemodialysis Patients".
- **E. Ellicott**, Burgers Program and Combustion Institute Summer School on Fire Safety Science - Wildland/WUI Fire Behavior, College Park, MD, June 5-9, 2023, "Remote Sensing and Wildfires".
- **E. Ellicott**, A. de Bremond, N. Magliocca, Q. Khuc, Earth System Science Interdisciplinary Center, College Park, MD, May 6, 2019, "Earth Observations for Detecting and Characterizing Large-Scale Land Acquisitions".
- N. Magliocca, Q. Khuc, **E. Ellicott,** A. de Bremond, K. Feng, Global Land Project: Open Science Meeting, Bern, Switzerland, April 25, 2019, "Archetypical pathways of direct and indirect land-use change caused by economic land concessions in Cambodia".
- N. Magliocca, Q. Khuc, **E. Ellicott,** A. de Bremond, K. Feng, LCLUC Spring Science Team Meeting, Rockville, Maryland, April 10, 2019, "Archetypical pathways of direct and indirect land-use change caused by economic land concessions in Cambodia".
- **E. Ellicott**, JPSS Science Seminar, College Park, MD, January, 28, 2019, "Wildfires and Remote Sensing".
- **E. Ellicott**, W. Schroeder, L. Giglio, K. Vadrevu, C. Justice, I. Csiszar, and; S. Kondragunta; Alaska Interagency Coordination Center (AICC), Fairbanks, Alaska, March 29, 2016, "Fire and Smoke: An overview of satellite products"
- **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. Roohr, B. Quayle, L. Giglio, W. Schroeder, K. Vadrevu, C. Justice; NWS Incident Meteorologist (IMET) training workshop, March 14th & 21st, 2013, "Suomi-NPP (SNPP) VIIRS Active Fire: Proving Ground and Risk Reduction. A rapid delivery system of enhanced VIIRS active fire data for fire management and fire weather applications".
- **E. Ellicott**, I. Csiszar, K. Vadrevu, W. Schroeder, L. Giglio, B. Quayle, C. Justice, P. Roohr; NASA Applied Remote SEnsing Training (ARSET) November 20th, 2013, "Suomi-NPP VIIRS Active Fire: Introduction to Remote Sensing for Air Quality Applications".
- **E. Ellicott**, L. Giglio, I. Csiszar, W. Schroeder, HyspIRI Science Workshop, Washington, DC, August 2011, "Practical considerations regarding the use of HyspIRI for fire monitoring".
- J. McCarty & **E. Ellicott**, Meeting on Open Burning and the Arctic, St. Petersburg, Russia, November 2010, "Remote sensing-based black carbon emission estimates from cropland burning in the Russian Federation".

III.C.2. Non-Refereed Presentations

- **E. Ellicott**, K. Hurni, A. de Bremond, N. Magliocca, Global Land Project: Open Science Meeting, Bern, Switzerland, April 25, 2019, "Earth Observations for Detecting and Characterizing Large-Scale Land Acquisitions".
- Q. Khuc N. Magliocca, A. de Bremond, **E. Ellicott**, Global Land Project: Open Science Meeting, Bern, Switzerland, April 25, 2019, "Linking large-scale land acquisitions to deforestation, poverty, and rural population displacement in Cambodia".
- N. Magliocca, Q. Khuc, **E. Ellicott,** A. de Bremond, K. Feng, Association of American Geographers (AAG) Annual Meeting, April 6, 2019, "Archetypical pathways of direct and indirect land-use change caused by economic land concessions in Cambodia".
- **E. Ellicott**, A. de Bremond, N. Magliocca, Q. Khuc, Association of American Geographers (AAG) Annual Meeting, April 5, 2019, "Earth Observations for Detecting and Characterizing Large-Scale Land Acquisitions".
- Q. Khuc N. Magliocca, A. de Bremond, **E. Ellicott**, Association of American Geographers (AAG) Annual Meeting, April 3, 2019, "Linking large-scale land acquisitions to deforestation, poverty, and rural population displacement in Cambodia".
- N. Magliocca, A. de Bremond, **E. Ellicott,** Q. Khuc, American Geophysical Union (AGU) Fall Meeting, December 11, 2018, "Archetypical pathways of deforestation and population displacement caused by large-scale land acquisitions in Cambodia".
- **E. Ellicott**, N. May, M. Gollner, H. Levine, R. Kremens; International Association of Wildland Fire – Fire Continuum Conference, May 23, 2018, "An examination of fuel moisture, energy release, and emissions during laboratory burning of live wildland fuels".
- **E. Ellicott**, A. de Bremond, N. Magliocca, K. Feng, K. Hubacek; LCLUC Spring Science Team Meeting, Rockville, Maryland, April 4, 2018, "The global land rush: A socio-environmental synthesis".
- I. Csiszar, M. Tsidulko, W. Schroeder, L. Giglio, **E. Ellicott**; NOAA Aerosol Workshop, September 25, 2017, "VIIRS product status".
- N. May, **E. Ellicott**, M. Gollner; 10th U. S. National Combustion Meeting, April 23-26, 2017, "Moisture content effects on energy and emissions released during the combustion of pyrophytic vegetation from various regional ecosystems".

- **E. Ellicott**, K. Haviland, H. Zhong, A. de Bremond, K. Feng, K. Hubacek; LCLUC Spring Science Team Meeting, Rockville, Maryland, April 12, 2017, "Large-Scale Land Acquisitions (LSLAs): Global analysis and Cambodia case study".
- M. B. Dickinson, M. Dietenberger, **E. Ellicott**, C. Hardy, A. Hudak, R.L., Kremens, W. Mathews, W. Schroeder, A.M.S. Smith, E. Strand; American Geophysical Union annual meeting, December 13, 2016, "The use of remotely-sensed wildland fire radiation to infer the fates of carbon during biomass combustion - understanding and quantifying a fire's mass and energy budget".
- **E. Ellicott**, M. Gollner, N. May, H. Levine, R. Kremens, W. Schroeder; GOFC-GOLD Fire IT meeting, Santiago, Chile, November 16, 2016, "Pyrophytic plant combustion and the relationship between fuel moisture, energy released, and emissions".
- **E. Ellicott**, M. Gollner, N. May, R. Kremens, W. Schroeder; 2nd International Smoke Symposium, Long Beach, CA, November 15, 2016, "Examination of pyrophytic plant combustion and the relationship between fuel moisture, energy released, and emissions: New Results."
- I. Csiszar, M. Tsidulko, W. Schroeder, L. Giglio, **E. Ellicott**; NOAA Aerosol Workshop, September 14, 2016, "VIIRS fire products".
- **E. Ellicott**, W. Schroeder, L. Giglio, K. Vadrevu, C. Justice, I. Csiszar, and; S. Kondragunta; University of Alaska, Fairbanks, Alaska, July 13, 2016. "Remote Sensing Products and Tools for Fire Science".
- **E. Ellicott**, M. Gollner, R. Kremens, W. Schroeder; International Association of Wildland Fire Conference, Portland, OR, April 14, 2016, "Examination of pyrophytic plant combustion and the relationship between fuel moisture, energy released, and emissions."
- M. Dickinson, M. Dietenberger, **E. Ellicott**, C. Hardy, A. Hudak, RL Kremens, W. Mathews, W. Schroeder, AMS. Smith, E. Strand; American Geophysical Union Fall Meeting, December 2nd, 2016, "The use of remotely-sensed wildland fire radiation to infer the fates of carbon during biomass combustion - understanding and quantifying a fire's mass and energy budget"
- **E. Ellicott**, I. Csiszar, W. Schroeder, L. Giglio, K. Vadrevu, C. Justice and S. Kondragunta; NOAA Satellite Proving Ground/User Readiness Meeting, June 19, 2015, "Fire & Smoke: An overview of VIIRS products".
- A. de Bremond, **E. Ellicott**, K. Feng , K. Hubacek; World Bank Land & Poverty Meeting, March 26, 2015, "The global 'rush for land': A socio-environmental synthesis".
- **E. Ellicott**, I. Csiszar, 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"
- 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, P. Roohr, B. Quayle, L. Giglio, W. Schroeder, K. Vadrevu, C. Justice; American Meteorological Society's Annual Meeting, February 6th, 2014, "Suomi NPP (SNPP) Visible Infrared Imaging Radiometer Suite (VIIRS) Active Fire Data for Fire Management and Fire Weather Applications".
- **E. Ellicott**, W. Schroeder, C. Ichoku, L. Ellison, M. Dickinson, R. Ottmar, C. Clements, D. Hall, V. Ambrosia, and R. Kremens; International Association of Wildland Fire – Smoke Symposium, October 24th, 2013, "Exploring uncertainty in fire radiative energy-based emission estimates".
- **E. Ellicott**, I. Csiszar, W. Schroeder, P. Roohr, and B. Quayle, L. Giglio, and C. Justice; NOAA Satellite Conference, College Park, MD, April 9th, 2013, "Suomi NPP (SNPP)

Visible Infrared Imager Radiometer Suite (VIIRS) Active Fire Data for Fire Management and Fire Weather Applications".

- **E. Ellicott** & E. Vermote, American Geophysical Union Fall Meeting, San Francisco, December 2010, "Biomass burning emissions and deforestation in the Legal Amazon: 2001-2009".
- **E. Ellicott** & E. Vermote, Global Land Project Open Science Meeting, October 2010, "Examining fire radiative energy from biomass burning in the Legal Amazon and the connection with deforestation trends".
- **E. Ellicott** & E. Vermote, NCAR Early Career Scientist Assembly (ECSA) Joint Faculty Forum (JFF), July 2010, "Biomass burning emissions and deforestation in the Legal Amazon".
- **E. Ellicott**, E. Vermote, L. Giglio, G. Roberts, 4th Global Vegetation Workshop, June 2009, "Estimating Biomass Consumed, Fuel Loads, and Carbon Emissions from African Fires using MODIS FRE."
- **E. Ellicott**, E. Vermote, L. Giglio, and G. Roberts, Sigma Xi 8th Annual Student Research Conference, November 2008, "Estimating Biomass Burning Fire Radiative Energy using MODIS."
- **E. Ellicott**, E. Vermote, T. Laypyonok, M. Chin, and O. Dubovik, Association of American Geographers Annual Conference, April 2008, "Estimating Biomass Burning Organic and Black Carbon Particulate Matter Emissions using Fire Radiative Power."
- **E. Ellicott**, E. Vermote, T. Laypyonok, M. Chin, and O. Dubovik, NASA Carbon Cycles & Ecosystems Joint Science Workshop, poster, April 2008, "Estimating Biomass Burning Organic and Black Carbon Particulate Matter Emissions using Fire Radiative Power."
- **E. Ellicott**, Association of American Geographers Annual Meeting, April 2007, "Estimating Global Biomass Burning Emissions using Fire Radiative Power."
- **E. Ellicott**, E. Vermote, F. Petitcolin, and S. Hook, American Geophysical Union Annual Meeting, December 2006, "Validation of New Parametric Model for Atmospheric Correction of Thermal Infrared."
- **E. Ellicott**, E. Vermote, T. Laypyonok, O. Dubovik, and M. Chin, American Geophysical Union Annual Meeting, December, 2006, "Evaluation of Global Biomass Burning Carbon Emission Estimates using Fire Radiative Power."

III.C.3. <u>Non-Refereed Posters</u>

- **E. Ellicott**, American Geophysical Union (AGU) Fall Meeting, December 12, 2018, "Improving user understanding and application of the Visible Infrared Imager Radiometer Suite (VIIRS) products for wildland fire management through capacity building and product evaluation".
- J. Mandel, A. Kochanski, **E. Ellicott**, J. Haley, A. Farguell, L. Hearn, K. Hilburn, American Geophysical Union (AGU) Fall Meeting, December 11, 2018, "Retrieving Fire Perimeters and Ignition Points of Large Wildfires from Satellite Observations".
- **E. Ellicott**, STAR JPSS Annual Team Meeting, August 27, 2018, "VIIRS Active Fires Products: Applications and Capacity Building".
- I. Csiszar & **E. Ellicott**; NOAA Satellite Aerosol Product Workshop, September 25-26, 2017, "Status of VIIRS Fire Products".
- **E. Ellicott**, K. Haviland, H. Zhong, A. de Bremond, K. Feng , K. Hubacek; World Bank Land & Poverty Meeting, March 22, 2017, "Large-Scale Land Acquisitions and Land Cover Change: Global Analysis and Cambodia case study".

- **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".
- I. Csiszar, **E. Ellicott**, W. Schroeder, L. Giglio, C. Justice, B. Wind, K. Vadrevu, P. Roohr, and B. Quayle, American Meteorological Society Annual Meeting, January 9th, 2013, "Suomi NPP (SNPP) Visible Infrared Imager Radiometer Suite (VIIRS) Active Fire Data for Fire Management and Fire Weather Applications".
- **E. Ellicott**, E. Vermote, T. Laypyonok, M. Chin, and O. Dubovik, Graduate Research Interaction Day (GRID), April 2007, "Estimating Global Biomass Burning Emissions using Fire Radiative Power."

III.C.4. Workshops

- A. Huff, **E. Ellicott**, and I. Csiszar; American Meteorological Society Annual Meeting, January 21, 2017, "JPSS Fire and Smoke Products: Experiencing JPSS Capabilities".
- **E. Ellicott**, K. Vadrevu, I. Csiszar, W. Schroeder, L. Giglio, C. Justice, B. Quayle, and P. Roohr; Tactical Fire Remote Sensing Advisory Committee (TFRSAC) Spring Meeting, San Jose, CA, April 17th, 2013, "Suomi NPP VIIRS Active Fire: Proving Ground and Risk Reduction".
- **E. Ellicott**, I. Csiszar, W. Schroeder, L. Giglio, B. Wind, and C. Justice; Tactical Fire Remote Sensing Advisory Committee (TFRSAC) Fall Meeting, NIFC Boise, ID, November 8th, 2012, "VIIRS active fire product: Current status and developments".
- **E. Ellicott**, I. Csiszar, W. Schroeder, L. Giglio, B. Wind, and C. Justice; Tactical Fire Remote Sensing Advisory Committee (TFRSAC) Spring Meeting, Washington, DC, March 20th, 2012, "VIIRS active fire product: Current status and future plans".

III.D. Professional and Extension Publications

III.D.1. Reports and Non-Refereed Monographs

- **E. Ellicott**, M. Dickinson, N. Skowronski, D. Weise, T. Waldrop, J. O'Brien, M. Dietenberger, M. Gollner, J. Chong, H. Levine, L. Giglio, K. Lasko, C. Miller, (2019). Wildland fires and remote sensing – an opportunity for capacity building and examination. Feature Article in JPSS Science Seminar Annual Digest 2019. https://www.jpss.noaa.gov/assets/pdfs/science_publications/2019_science_seminar_digest.pdf
- **E. Ellicott**, I. Csiszar W. Schroeder, L. Giglio, and K. Vadrevu (2012-2019). Suomi NPP (SNPP) Visible Infrared Imager Radiometer Suite (VIIRS) Active Fire Products Applications for Fire Management. Quarterly Reports delivered to the JPSS PGRR program office.
- **E. Ellicott** (2017). Evaluation of VIIRS fire radiative product (FRP). Report delivered to JPSS PGRR and Fire & Smoke initiative program.
- **E. Ellicott** (2017). Comparison of NASA. Report delivered to JPSS PGRR and Fire & Smoke initiative program.
- **E. Ellicott**, W. Schroeder, L. Giglio, and I. Csiszar (2016). A review of the VIIRS active fire proving ground and risk reduction (PGRR) outreach efforts. Assessment delivered to the JPSS PGRR program office.
- **E. Ellicott**, W. Schroeder, L. Giglio, K. Vadrevu, C. Justice, I. Csiszar, and S. Kondragunta (2016); "Remote Sensing Products and Tools for Fire Science". Delivered to the Alaska Fire Service and Alaska Interagency Coordination Center.
- **E. Ellicott**, W. Schroeder, L. Giglio, and C. Justice. (2016). Evaluation of the VIIRS Imagery Band (I-band) near real-time from LANCE. Final report to NASA Sciences and Exploration Directorate (Code 600).

- M. Gollner, A. Trouve, I. Altintas, J. Block, R. de Callafon, C. Clements, A. Cortes, **E. Ellicott**, J. B. Filippi, M. Finney, and K. Ide. (2015). Towards Data-Driven Operational Wildfire Spread Modeling: A report of the NSF-Funded WIFIRE Workshop.
- **E. Ellicott**, W. Schroeder, L. Giglio, I. Csiszar, and C. Justice. (2015). VIIRS Active Fire PGRR: 2014 accomplishments. A report to the Cooperative Institute for Climate and Satellites-Maryland (CICS-MD) and PGRR program office.
- N. Govender, W. Schroeder, L. Giglio, **E. Ellicott**, R. Kremens, G. Ruecker, O. Frauenbergen, M. Wooster, M. Dejong, B. Main, R. Paugam, and A. Hoffmann. (2014). Validation of satellite active fire data sets using coincident prescribed fire opportunities in Kruger National Park. A report to the global change SysTem for Analysis, Research, and Training (STarT).
- J. Price, **E. Ellicott**, I. Csiszar, and C. Schmidt. (2014). VIIRS Active Fire Data for Fire Weather Applications. Feature article from the JPSS Science Seminar.
- **E. Ellicott,** I. Csiszar, W. Straka, M. Goldberg, J. Price, and W. Sjoberg, (2013). Active fire detection: An eye in the sky for the boots on the ground. Feature Article in JPSS Science Seminar Annual Digest 2013. https://www.jpss.noaa.gov/assets/pdfs/science_publications/2013_science_seminar_digest.pdf
- **E. Ellicott** (2013). Rim Fire debrief: "Boots on the Ground". Report to NOAA/PGRR program office.
- **E. Ellicott** (2012). Suomi NPP VIIRS Active Fire Product Evaluation: An examination of several U.S. fire incidents from 2012. Technical report to NOAA/PGRR program office.

III.E. Sponsored Research and Programs – Administered by the Office of Research Administration (ORA)

III.E.1. Grants

- NIH, Infectious Diseases, Reproductive Health, Asthma and Pulmonary Conditions Study Section, "Wildfires and Infant Health", $611,926, Co-investigator.
- NASA, *"LANCE FIRMS Sentinel-3 Fire Pilot Study"*, $, Co-investigator.
- NOAA, Congressional Supplemental Disaster Relief Funding, *"Capacity Building with Wildfire Operations"*, $154,348, 2022-2024, Principal Investigator.
- NOAA, VIIRS Proving Ground and Risk Reduction, "*Improving User Understanding and Application of the Visible Infrared Imager Radiometer Suite (VIIRS) Active Fire (AF) Products through Capacity Building and Product Evaluation"*, $94,953, 2020-2021, Principal Investigator.
- NSF, "*Fire Spread at the Wildland-Urban Interface (WUI) - Modeling and Assimilation for Prediction and Risk assessment*", $ 1,377,742, 2019– 2021, Co-investigator.
- NASA, "*Sentinel 3 Data for Land Science: Calibration, Product Evaluation, Generation, and Validation*", $575,419, 2017 – 2022, Co-investigator.
- NASA, "*The Global Land Rush: A Socio-Environmental Synthesis*", $675,000, 2017 – 2020, Co-investigator.
- NOAA, "*JPSS Proving Ground & Risk Reduction Visiting Scientist Program*, $77,025, 2019, Principal investigator.
- NOAA, "*Visiting Scientist Program–Capacity Building Efforts for VIIRS Active Fire Products*, $5704, 2018, Principal investigator.
- NASA, "*S-NPP/VIIRS Active Fire Algorithm and Data Record Development and Refinement"*, $602,569, 2014 –2018, Principal investigator.
- NOAA, "*JPSS Proving Ground & Risk Reduction Visiting Scientist Program*, $75,000, 2018, Principal investigator

- NOAA, "*Suomi NPP (SNPP) Visible Infrared Imager Radiometer Suite (VIIRS) Active Fire Products Applications for Fire Management*", $225,000, 2015 – 2018, Principal investigator.
- NOAA, "*NPP/VIIRS Land Product Validation Research and Algorithm Refinement Science and Management Support for the NPP VIIRS Active Fire Product*", $330,318, 2015 – 2017, Co-investigator.
- NASA, "*Evaluation of the VIIRS Imagery Band (I-band) near real-time from LANCE*", $34,640, 2016, Principal investigator.
- NOAA, "*Suomi NPP (SNPP) Visible Infrared Imager Radiometer Suite (VIIRS) Active Fire Data for Fire Management and Fire Weather Applications*", $124,000, 2012, Principal investigator.
- NASA, "*Global estimates of biomass burning CO2 and aerosols emission from Terra and Aqua missions*", $643,451, 2010 – 2013, Co-investigator.
- NASA, NASA Earth Systems Science Fellow, "*Estimating Global Biomass Burning Emissions Using Fire Radiative Power*", $84,000, 2007 – 2009, Principal investigator.

III.F. Gifts, and Funded Research not administered by ORA

- University of Maryland at College Park (UMCP), Council on the Environment Seed Grants for Interdisciplinary Environmental Research, "*Quantifying wildfire pollutant/aerosol emissions using simulations, data assimilation and satellite observations*", $90,000, 2014 - 2016, Co-investigator.

IV. Teaching, Extension, Mentoring, and Advising

IV.A. Courses Taught

2022 – GEOG 652, *Remote Sensing: Digital Processing and Analysis*
2022 – GEOG 472, *Remote Sensing: Digital Processing and Analysis*
2019 – GEOG653, *Spatial Analysis*, Nanjing Normal University, China
2018 – BSOS 388T, *Sustainability Task Force*
2014 – GEOG 415, *Land Use, Climate Change, and Sustainability*

IV.B. Advising: Research or Clinical

IV.B.1. Undergraduate

- Heather Levine, BS 2019. Civil and Environmental Engineering. Worked on lab experiments investigating fuel-type influence on radiative energy released during combustion.
- Katie Haviland, BS 2018. Geographical Sciences. Conducted statistical analysis of variables related to national-level Large-Scale Land Acquisitions (LSLAs) using R-stats package.

IV.B.2.

Master's

- Emily Colon, MA (Anthropology) 2018. Thesis: Ki Ni Bê: The fire-making practices of the Mebêngôkre-Kayapó in the Brazilian Cerrado.
- Nathanial May, MS (Engineering) 2017. Thesis: Moisture content effects on energy and emissions released during combustion of pyrophytic vegetation

IV.B.3. Doctoral

- Hyeonjin Song, PhD (Epidemiology) Expected 2024. Thesis: The Impact of Climate Change on End-Stage Renal Disease Patients in the Western United States
- Jiaying He. PhD (Geographical Sciences) 2020. Thesis: Factors and mechanisms related to fire ignitions and predicting fire occurrences in Alaskan tundra

IV.C. Teaching Awards

- Distinguished Teaching Assistant, University of Maryland 2008 – 2009

V. Service and Outreach

V.A. Editorships, Editorial Boards, and Reviewing Activities

V.A.1. Reviewing Activities for Journals and Presses

- Remote Sensing of Environment
- IEEE
- International Journal of Wildland Fire

V.A.2. Reviewing Activities for Conferences

Steering committee member and reviewer for the "*Opportunities to Apply Remote Sensing in Boreal/Arctic Wildfire Management and Science*" meeting, University of Alaska Fairbanks, April 4-6, 2017.

V.B. Committees, Professional & Campus Service

V.B.1. Campus Service – Department

- Department Committee – Research faculty representative (2017-2018)
- Green Office Program representative (2011 – present)
- Coordinator of the Geography Sustainability Task Force (2010 – present)
- Department Advisory Committee (DAC) – (2016 – 2017)
- Chair Review Committee (2015 – 2016)
- Undergraduate Committee (2011 – 2012)
- Lecturer Hire Review Committee (2010)

V.B.2. Campus Service – College

- Chair - College of Behavioral and Social Science Sustainability Committee (2016 -)
- Faculty advisor for the BSOS Sustainability Task Force (STF) in 2017-18
- Co-coordinator for College of Behavioral and Social Sciences (BSOS) Sustainability Action Plan

V.B.3. Campus Service – University

- UMD Senator (2016 – 2019)
- Committee Member for the Advancement of Professional Track Faculty (2017-2018)
- UMD Senate Executive Committee member (2016-2017)

VI. Other Information

Outreach, Training, and Capacity Building

- NOAA Visiting Scientist Program – "embedded" for two weeks at two National Interagency Fire Operations Coordination Centers; the Alaska Interagency Coordination Center (AICC) in Fairbanks, Alaska, July 2018; and the Southern California Geographic Area Coordination in, Riverside, California. August 2018
- Alaska Fire Service (AFS) and Alaska Interagency Coordination Center (AICC), Fairbanks, Alaska. April 2017.
- Southwest Fire Coordination Center, Riverside, California. August 2017.
- Alaska Fire Service (AFS) and Alaska Interagency Coordination Center (AICC), Fairbanks, Alaska. April 2017.

- Alaska Fire Service (AFS), Alaska Interagency Coordination Center (AICC), National Weather Service (NWS), and the University of Alaska, Fairbanks (UAF), Alaska. March and July 2016.
- National Interagency Coordination Center (NICC), Boise, Idaho. September and November 2014.
- Northwest Coordination Center (NWCC), Portland, Oregon. September 2014.
- Kruger National Park, Skukuza, South Africa. August 2014.
- Interagency Meteorologist (IMET) workshop, online. March 2013
- West Fork Fire Complex, Colorado. June 2013
- Rim Fire, California. September 2013