Jonathan A. Wang

Curriculum Vitae (Last updated 2/21/2024)

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EDUCATION

Ph.D.	2019	*Earth and Environment*	Boston University
B.S.	2010	*Geology-Biology*	Brown University

RESEARCH INTERESTS

Impacts of climate change, disturbance, and human activity on land cover, terrestrial ecology, and the carbon cycle using high-performance computing and remote sensing.

ACADEMIC APPOINTMENTS

2023 – Present **Assistant Professor.** *School of Biological Sciences*.
University of Utah

2019 – 2022 **Postdoctoral Scholar.** *Earth System Science*
University of California, Irvine, CA

2014 – 2019 **NSF Graduate Research Fellow.** *Earth and Environment*
Boston University, Boston, MA

REFEREED PUBLICATIONS

(Google Scholar Profile) (Web of Science Profile)

Google Scholar h-index: 18, citations: 1232. Web of Science h-index: 14, citations: 830.

2024

31) Kim, J. E., **Wang, J. A.**, Li, Y., Czimczik, C. I., & Randerson, J. T. (2024). Wildfire-induced increases in photosynthesis in boreal forest ecosystems of North America. *Global Change Biology*, 30(1), e17151.

30) Murray-Tortarolo, G., Perea, K., Mendoza-Ponce, A., … ,**Wang, J.A.** & Poulter, B. (2024). A Greenhouse Gas Budget for Mexico during 2000-2019. *Journal of Geophysical Research: Biogeosciences, 129(1), e2023JG007667* [doi: https://doi.org/10.1029/2023JG007667]

2023

29) Stanimirova, R., Tarrio, K., … ,**Wang, J.A.,** … , & Friedl, M.A. (Accepted). A global land cover training dataset from 1984 to 2020. *Scientific Data, 10(1),* 879. [doi: https://doi.org/10.1038/s41597-023-02798-5]

28) Qu, S., Ryu, Y., Liu, J., & **Wang, J. A.** (2023). Greening rate in North Korea doubles South Korea. *Environmental Research Letters,* 18(8), 084020 [doi: https://doi.org/10.1088/1748-9326/acdaad]

27) Hemes, K. S., Norlen, C. A., **Wang, J. A.**, Goulden, M. L., & Field, C. B. (2023). The magnitude and pace of photosynthetic recovery after wildfire in California ecosystems. *Proceedings of the National Academy of Sciences*, 120(15), e2201954120. [doi: https://doi.org/10.1073/pnas.2201954120]

26) Klotz, L. A., Sonnentag, O., Wang, Z., **Wang, J. A.**, & Kang, M. (2023). Oil and natural gas wells across the NASA ABoVE domain: fugitive methane emissions and broader environmental impacts. *Environmental Research Letters*, 18(3), 035008. [doi: https://doi.org/10.1088/1748-9326/acbe52]

2022

25) Anderegg, W. R., Trugman, A. T., **Wang, J.A.**, & Wu, C. (2022). Open science priorities for rigorous nature-based climate solutions. *PLoS Biology*, 20(12), e3001929. [doi: https://doi.org/10.1371/journal.pbio.3001929]

24) Foster, A. C., **Wang, J. A.**, Frost, G. V., Davidson, S. J., Hoy, E., Turner, K. W., ... & Goetz, S. (2022). Disturbances in North American boreal forest and Arctic tundra: impacts, interactions, and responses. *Environmental Research Letters,* 17(11), 113001 [doi: https://doi.og/10.1088/1748-9326/ac98d7]

23) Coffield, S. R., Vo, C. D., **Wang, J. A.**, Badgley, G., Goulden, M. L., Cullenward, D., ... & Randerson, J. T. (2022). Using remote sensing to quantify the additional climate benefits of California forest carbon offset projects. *Global Change Biology,* 28(22), 6789-6806 [doi: https://doi.org/10.1111/gcb.16380]

22) Murray-Tortarolo, G., Poulter, B., Vargas, R., Hayes, D., Michalak, A. M., Williams, C., Windham-Myers, L., **Wang, J.A.**, ... & Chaterjee, A. A process-model perspective on recent changes in the carbon cycle of North America. *Journal of Geophysical Research: Biogeosciences*, e2022JG006904. [doi: https://doi.org/10.1029/2022JG006904]

21) **Wang, J.A.**, Knight, C, Goulden, M.L., Battles, J.B. & Randerson, J.T. (2022) Losses of tree cover in California driven by increasing fire disturbance and climate stress. *AGU Advances*, 3(4), e2021AV000654. [doi: https://doi.org/10.1029/2021AV000654]
Covered in the LA Times, SF Chronicle, SD Union Tribune, and Eos.

20) Friedl M.A., Woodcock C.E., Olofsson P., Zhu Z., Loveland T., Stanimirova R., Arevalo P., Bullock E., Hu K-T., Zhang Y., Turlej K., Tarrio K., McAvoy K., Gorelick N., **Wang J.A.**, Barber C.P. & Souza C (2022). Medium Spatial Resolution Mapping of Global Land Cover and Land Cover Change Across Multiple Decades From Landsat.

Frontiers in Remote Sensing, 3:894571. [doi: https://doi.org/10.3389/frsen.2022.894571]

19) Zhang, Y.T., Woodcock, C.E., Chen, S., **Wang, J.A.,** Sulla-Menashe, D., Zuo, Z., Olofsson, P., Wang, Y., & Friedl, M.A. (2022) Mapping causal agents of disturbance in boreal and arctic ecosystems of North American using time series of Landsat data. *Remote Sensing of Environment,* 272, 112935 [doi: https://doi.org/10.1016/j.rse.2022.112935]

18) Nelson, P.R., Maguire, A.J. Pierrat, Z., Orcutt, E.L., Yang, D., Serbin, S., Frost, G.V., Macander, M.J., Magney, T.S., Thompson, D.R., **Wang, J.A.**, Oberbauer, S.F., … Velez-Reyes, M., & Huemmrich, K.R. (2022). Remote Sensing of Tundra Ecosystems using High Spectral Resolution Reflectance: Opportunities and Challenges. *Journal of Geophysical Research: Biogeosciences,* 127(2), e2021JG006697. [doi: https://doi.org/10.1029/2021JG006697]

17) Seider, J.H., Lantz, T.C., Hermosilla, T., Wulder, M.A., & **Wang, J.A.** (2022). Biophysical determinants of shifting tundra vegetation productivity in the Beaufort Delta region of Canada. *Ecosystems,* 1-20 [doi: https://doi.org/10.1007/s10021-021-00725-6]

16) Knight, C., Tompkins, R.E., **Wang, J.A.**, York, R., Goulden, M.L., & Battles, J.B. (2022). Accurate tracking of forest activity key to multi-jurisdictional management goals: A case study in California. *Journal of Environmental Management,* 302, 114083 [doi: https://doi.org/10.1016/j.jenvman.2021.114083]

2021

15) Watts, J. D., Natali, S. M., Minions, C., Risk, D., Arndt, K., ... **Wang, J.A.,** …, & Edgar, C. (2021). Soil respiration strongly offsets carbon uptake in Alaska and Northwest Canada. *Environmental Research Letters*, 16(8), 084051. [doi: https://doi.org/10.1088/1748-9326/ac1222]

14) Madani, N., Parazoo, N.C., Kimball, J.S., Chatterjee, A., Watts, J.D., Saatchi, S., Liu, Z., Endsley, A., Tagesson, T., Rogers, B.M., Xu, A., **Wang, J.A.**, Magney, T., & Miller, C.E. (2021). The Impacts of Climate and Wildfire on Ecosystem Gross Primary Productivity in Alaska. *Journal of Geophysical Research – Biogeosciences*, 126(6), e2020JG006078 [doi: https://doi.org/10.1029/2020JG006078]

13) **Wang, J.A.**, Farina, M., Baccini., A., Randerson, J.T., & Friedl, M.A. (2021). Disturbance suppresses the aboveground carbon sink in North American boreal forests. *Nature Climate Change*, 11, 435-441. [doi: https://doi.org/10.1038/s41558-021-01027-4]
Interview in Science Friday and Radio-Canada

12) Miles, N.L., Davis, K.J., Richardson, S.J., Lauvaux, T., Martins, D.K., Deng, A.J., Balashov, N., Gurney, K.R., Liang, J., Roest, G., **Wang, J.A.**, & Turnbull, J.C. (2021). The influence of near-field fluxes on seasonal carbon dioxide enhancements: results from the Indianapolis Flux Experiment (INFLUX). *Carbon Balance and Management,* 16(4) [doi: https://doi.org/10.1186/s13021-020-00166-z]

2020

11) Lauvaux, T., Gurney, K. R., Miles, N. L., Davis, K. J., Richardson, S. J., Deng, A., Nathan, B. J., Oda, T., **Wang, J. A.**, Hutyra, L., & Turnbull, J. (2020). Policy-Relevant Assessment of Urban CO_2 Emissions. *Environmental Science & Technology,* 54(16), 10237-10245 [doi:https://doi.org/10.1021/acs.est.0c00343]

10) O'Brien, D.T., Gridley, B., Trlica, A, **Wang, J.A.**, & Shrivastava, A. (2020). Urban Heat Islets: Street Segments, Land Surface Temperatures, and Medical Emergencies During Heat Advisories. *American Journal of Public Health,* 110(7), 994-1001. [doi: https://doi.org/10.2105/AJPH.2020.305636]

9) **Wang, J. A.**, Sulla-Menashe, D., Woodcock, C. E., Sonnentag, O., Keeling, R. F., & Friedl, M. A. (2020). Extensive land cover change across Arctic-boreal northwestern North America from disturbance and climate forcing. *Global Change Biology*, 26(2), 807-822. [doi: https://doi.org/10.1111/gcb.14804]

2019

8) **Wang, J. A.**, & Friedl, M. A. (2019). The role of land cover change in Arctic-boreal greening and browning trends. *Environmental Research Letters*. 14, 125007. [doi: https://doi.org/10.1088/1748-9326/ab5429]

2018

7) Sargent, M., Barrera, Y., Nehrkorn, Y., Hutyra, L.R., Gately, C.K., Jones, T., McKain, M., Sweeney, C., Hegarty, J., Hardiman, B., **Wang, J.A.** & Wofsy, S.C. (2018). Anthropogenic and biogenic CO_2 fluxes in the Boston urban region. *Proceedings of the National Academy of Sciences*, 115(29), 7491-7496. [doi: https://doi.org/10.1073/pnas.1803715115]

6) Klosterman, S., Melaas, E., **Wang, J.A.**, Martinez, A., Frederick, S., O'Keefe, J., Orwig, D.A., Wang, Z., Sun, Q., Schaaf, C., Friedl, M., & Richardson, A.D. (2018). Fine-scale perspectives on landscape phenology from unmanned aerial vehicle (UAV) photography. *Agricultural and Forest Meteorology*, 248, 397-407. [doi: https://doi.org/10.1016/j.agrformet.2017.10.015]

2017

5) Trlica, A., Hutyra, L. R., Schaaf, C. L., Erb, A., & **Wang, J. A.** (2017). Albedo, land cover, and daytime surface temperature variation across an urbanized landscape. *Earth's Future*, 5(11), 1084-1101. [doi: https://doi.org/10.1002/2017EF000569]

4) Hardiman, B. S.*, **Wang, J. A.***, Hutyra, L. R., Gately, C. K., Getson, J. M., & Friedl, M. A. (2017). Accounting for urban biogenic fluxes in regional carbon budgets. *Science of The Total Environment*, 592, 366-372. [doi: https://doi.org/10.1016/j.scitotenv.2017.03.028]
* These authors contributed equally to this work.

3) **Wang, J. A.**, Hutyra, L. R., Li, D., & Friedl, M. A. (2017). Gradients of atmospheric temperature and humidity controlled by local urban land-use intensity in Boston. *Journal of Applied Meteorology and Climatology*, 56(4), 817-831. [doi: https://doi.org/10.1175/JAMC-D-16-0325.1]

2016

2) Melaas, E. K., **Wang, J. A.**, Miller, D. L., & Friedl, M. A. (2016). Interactions between urban vegetation and surface urban heat islands: a case study in the Boston metropolitan region. *Environmental Research Letters*, 11(5), 054020. [doi: https://doi.org/10.1088/1748-9326/11/5/054020]

1) Fournier-Level, A., Perry, E. O., **Wang, J. A.,** Braun, P. T., Migneault, A., Cooper, M. D., Metcalf, J.E. & Schmitt, J. (2016). Predicting the evolutionary dynamics of seasonal adaptation to novel climates in Arabidopsis thaliana. *Proceedings of the National Academy of Sciences*, 113(20), E2812-E2821. [doi: https://doi.org/10.1073/pnas.1517456113]

PUBLICATIONS IN REVIEW

3) Blanchard, L., Haya, B., Anderson, C., … , **Wang, J.A.**, Williams, C.A., Wu, C., Yang, L., & Anderegg, W. (In Review), Funding Forests' Climate Potential Without Carbon Offsets. *Science*.

2) Zhang, Y., **Wang, J.A.**, Berner, L.T., Goetz, S.J., Zhao, K., & Liu, Y. (In Review) Warming and Disturbances Affect North American Arctic-Boreal Vegetation Resilience. *Nature Ecology and Evolution*.

1) **Wang, J.A.**, Goulden, M., Norlen, C., Bhoot, V., Coffield, S., & Randerson, J.T. (In Review). Shifts in wildfire geography and severity increasingly threatened dense, moist forests in California. *Proceedings of the National Academy of Sciences*.

DATA PRODUCTS

6) Zhang, Y., Woodcock, C.E., Chen, S., **Wang, J.A.**, Sulla-Menashe D., Zuo Z., Olofsson P., Wang Y., and M.A. Friedl. (2022) ABoVE: Landsat-derived Annual Disturbance Agents Across ABoVE Core Domain, 1987-2012. *ORNL DAAC, Oak Ridge, Tennessee, USA*. [doi: https://doi.org/10.3334/ORNLDAAC/1924]

5) **Wang, J.A.** (2022). Fractional vegetation cover in California, 1985 – 2021. *Harvard Dataverse, V1*. [doi: https://doi.org/10.7910/DVN/KMBYYM]

4) **Wang, J.A.** (2022). Disturbance Agents in California, 1985 – 2021. *Harvard Dataverse, V1*. [doi: https://doi.org/10.7910/DVN/CVTNLY]

3) **Wang, J.A.**, Farina, M., Baccini, A., and M.A. Friedl. (2021). ABoVE: Annual 30 m aboveground biomass density across the boreal Core Domain (1984-2014). *ORNL DAAC, Oak Ridge, Tennessee, USA*.[doi: https://doi.org/10.3334/ORNLDAAC/1808]

2) **Wang, J.A.**, D. Sulla-Menashe, C.E. Woodcock, O. Sonnentag, R.F. Keeling, and M.A. Friedl. (2019). ABoVE: Landsat-derived Annual Dominant Land Cover Across ABoVE Core Domain, 1984-2014. *ORNL DAAC, Oak Ridge, Tennessee, USA*. [doi: https://doi.org/10.3334/ORNLDAAC/1691]

1) **Wang, J.A.** (2019). Land surface temperature and urban heat island effects on air temperature and vapor pressure deficit in Boston, MA. *Harvard Dataverse, V1* [doi: https://doi.org/10.7910/DVN/J8EDZN]

NON-REFEREED PUBLICATIONS

1) Kaushik, A., Graham J., Dorheim K., Kramer R., **Wang, J.A.**, and Byrne B. (2020). The future of the carbon cycle in a changing climate. *Eos,* 101 [doi :https://doi.org/10.1029/2020EO140276]

GRANTS AND FELLOWSHIPS

2024-27	NASA Early Career Investigators Program-Earth Science	$299,000
2024-27	NASA Land Cover Land Use Change *Multiscale monitoring of drought-induced forest mortality by detecting spatial anomalies in land surface temperature and infrared reflectance*	$655,000
2023-25	NASA Terrestrial Ecology (ABoVE Phase 3, PI) *Quantifying Disturbance and Global Change Impacts on Multi-decadal Trends in Aboveground Biomass and Land Cover across Arctic-boreal North America*	$714,000
2014-19	NSF Graduate Research Fellowship Program *A High-Resolution Examination of the Effect of Urban Heating on Ecosystem Phenology.*	$122,000

INVITED SEMINARS

2022

14)	How wildfires are transforming terrestrial ecosystems and the carbon cycle: cases in Canada and California	University of Hong Kong
13)	How wildfires are transforming terrestrial ecosystems and the carbon cycle: cases in Canada and California	University of Utah
12)	Understanding impacts of global change on boreal plant ecology, disturbance, and the carbon cycle with remote sensing	University of Utah

2021

11)	Disturbance suppresses the aboveground carbon sink in North American boreal forests	Woodwell Climate Research Center
10)	A semi-automated approach to disturbance and vegetation classification across California	CA Natural Resources Agency
9)	Spaceborne insights into Earth's changing carbon cycle: a multi-scalar triptych	Washington Univ. in St. Louis
8)	Disturbance suppresses the aboveground carbon sink in North American boreal forests.	Jet Propulsion Laboratory

7)	How fires, urbanization, and forest management are reshaping Earth's carbon-climate system: A remote sensing triptych	Concordia Univ.

2020

6)	Time series remote sensing perspectives on the influence of land cover change on ecosystem function: studies in urban and Arctic-Boreal ecosystems	Jet Propulsion Laboratory
5)	Time series remote sensing perspectives on the influence of land cover change on ecosystem function: studies in urban and Arctic-Boreal ecosystems	Univ. California, Santa Barbara

2019

4)	Interactions among Land Cover, Disturbance, and Productivity Across Arctic-boreal Ecosystems of Northwestern North America from Remote Sensing	USGS (EROS Center)
3)	Interactions among Land Cover, Disturbance, and Productivity Across Arctic-boreal Ecosystems of Northwestern North America from Remote Sensing	Univ. California, Irvine

2018

2)	Regional shifts in productivity and plant functional types resulting from long-term trends in Arctic and boreal land cover change	Univ. de Quebec à Montréal
1)	Regional shifts in productivity and plant functional types resulting from long-term trends in Arctic and boreal land cover change	McGill University

CONFERENCE PRESENTATIONS

2023

27)	Poster	**Amer. Geophysical Union Fall Meeting** (San Francisco, CA) *Fire in the Earth System*
26)	Session Co-Convener	**Amer. Geophysical Union Fall Meeting** (San Francisco, CA) *The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change*
25)	Oral	**NASA ABoVE Science Team Meeting 9** (San Diego, CA)

2022

24)	Poster	**Amer. Geophysical Union Fall Meeting** (Chicago, IL) *Advances in Remote Sensing for Monitoring Biodiversity Change: Integrating Data and Models Across Scales and Technologies V*

2021

23)	Session Co-Convener	**Amer. Geophysical Union Fall Meeting** (New Orleans, LA) *Understanding Natural and Anthropogenic Disturbances in Biogeochemistry and Carbon-water Coupling*
22)	Session Chair	**Amer. Geophysical Union Fall Meeting** (New Orleans, LA) *Forest Disturbance and Resulting Changes in Structure, Composition, and Biogeochemistry I and II*
21)	Oral (Invited)	**Amer. Geophysical Union Fall Meeting** (New Orleans, LA) *The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change I*
20)	Oral	**Amer. Geophysical Union Fall Meeting** (New Orleans, LA) *Forest Disturbance and Resulting Changes in Structure, Composition, and Biogeochemistry II*
19)	Oral	**International Boreal Forest Research Association** (Virtual) *Changing Carbon Cycle Dynamics of Boreal Ecosystems*
18)	Oral	**NASA ABoVE Science Team Meeting 7** (Virtual)
17)	Oral	**Amer. Assoc. of Geographers Annual Meeting** (Virtual) *GIScience and Hazards in the Era of Big Data*
2020		
16)	Session Co-Convener & Chair	**Amer. Geophysical Union Fall Meeting** (Virtual) *Immense Pressures and High Expectations: Managing forest ecosystems for multiple benefits under human activities, climate change, and disturbance*
15)	Poster	**Amer. Geophysical Union Fall Meeting** (Virtual) *Forest Disturbance in the Context of Shifting Climate: Understanding Disturbances and Their Interactions As Agents of Forest Change II*
14)	Poster	**Ecological Society of America Annual Meeting** (Virtual)
13)	Poster	**NASA ABoVE Science Team Meeting 6** (Virtual)
2019		
12)	Oral	**Amer. Geophysical Union Fall Meeting** (San Francisco, CA) *The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change I*
11)	Oral	**Amer. Geophysical Union Chapman Conf.** (San Diego, CA) *Climate-Carbon Feedbacks: Critical Processes and Scales III*
10)	Poster	**NASA ABoVE Science Team Meeting 5** (San Diego, CA)
2018		
9)	Oral	**Amer. Geophysical Union Fall Meeting** (Washington, DC) *The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change IV*
8)	Oral (Invited)	**Amer. Geophysical Union Fall Meeting (**Washington, DC)

		Student Engagement to Enhance Development: Outstanding Student Presentation Award Winners from 2017 Fall Meeting II
7)	Oral (Invited)	**Permafrost Carbon Network 8th Meeting** (Washington, DC) *Vegetation/Hydrology*
6)	Oral (Invited)	**National Academies of Sciences Workshop** (Washington, DC) *Understanding northern latitude greening and browning*
5)	Poster	**ForestSAT** (Washington, DC)
4)	Poster	**NASA ABoVE Science Team Meeting 4** (Seattle, WA)
2017		
3)	Oral	**Amer. Geophysical Union Fall Meeting** (New Orleans, LA) *The Resilience and Vulnerability of Arctic and Boreal Ecosystems to Climate Change IV*
2016		
2)	Oral	**Amer. Geophysical Union Fall Meeting** (San Francisco, CA) *Urban Areas and Global Change III*
2015		
1)	Poster	**Amer. Geophysical Union Fall Meeting**, (San Francisco, CA) *Understanding and Attributing Greenhouse Gas Fluxes from Urban Systems and Major Hotspots*

SCIENCE COMMUNICATION and OUTREACH

2023		
12)	AGU EOS	Passing Planetary Boundaries Requires Synergistic Solutions [link]
11)	NASA GLOBE	Phenology Scientist Interviews [link]
10)	All Things Considered	California lost more than 36 million trees in the last year alone [link]
9)	High Country News	In a warming world, California's trees keep dying [link]
2022		
8)	S.D. Union Tribune	Southern California forests are shrinking from wildfire and drought, study finds [link]
7)	S.F. Chronicle	These maps show how alarmingly fast California is losing trees as climate warms [link]
6)	L.A. Times	California fires are so severe some forests might vanish forever [link]
2021		
5)	NASA NCCS	Scientists Measure Impacts of Fire and Other Disturbances on North American Boreal Forest Biomass. [link]

4)	Radio-Canada	La degradation des forêts, une source de carbone plus importante que le déboisement. [link]
3)	Science Friday	Arctic Wildfires Are Burning An Important Carbon Sink. [link]
2)	Phys.org	The Arctic's greening, but it won't save us. [link]
1)	BU The Brink	Northern Forest Fires Could Accelerate Climate Change. [link]

TEACHING EXPERIENCE

2023			
7)	Guest Lecture	BIOL 2870 Faculty Research Seminar	University of Utah
6)	Guest Lecture	BIOL 7406 Critical Analysis	University of Utah
2021			
5)	Guest Lecture	Remote Sensing	UC Davis
2020			
4)	Intern Mentor	CA Cent. for Ecosys. Clim. Solutions	UC Irvine
3)	Guest Lecture	Advanced Earth Observation	Univ. of Washington
2019			
2)	Coding Mentor	Student Airborne Research Program	NASA
2015-2019			
1)	Grader and Tutor	Multivariate Statistics	Boston Univ.

ACADEMIC SERVICE

5)	2023-	Guidance Team Member	SPEC School
4)	2023-	User Working Group	Oak Ridge National Lab DAAC
3)	2019-22	Outstanding Student Presentation Award - Judge	Amer. Geophysical Union Fall Meeting
2)	2015-17	Graduate Student Representative	Boston University Dept Earth and Environment
1)	2014-16	Journal Club Coordinator	Boston University

Manuscript Reviewer for:
Nature, Global Change Biology, Remote Sensing of Environment, Environmental Research Letters, Agricultural and Forest Meteorology, Remote Sensing Applications: Society and Environment, Landscape and Urban Planning, Nature Geoscience, Nature Communications: Earth and Environment, Geophysical Research Letters, Ecological Monographs, Science of Remote Sensing
36 Verified Reviews. [Web of Science Profile]

MEMBERSHIPS

American Geophysical Union (AGU)

American Association of Geographers (AAG)
Ecological Society of America (ESA)
Out in Science, Technology, Engineering, and Mathematics (oSTEM)

AWARDS and HONORS

2022	IOP Outstanding Reviewer Award
2021	IOP Trusted Reviewer
2020	IOP Outstanding Reviewer Award
2017	American Geophysical Union Outstanding Student Paper Award
2014	National Science Foundation Graduate Research Fellow

SKILLS

Programming and Analysis

R, Python, GDAL, High performance computing, git, ENVI, QGIS, Google Earth Engine

Office Software

Microsoft Word, Powerpoint, Excel, and Access; Adobe Photoshop and Illustrator

Statistical

Bayesian modeling, machine learning, multivariate analysis, time series analysis