

Amanda Hoffman-Hall, Ph.D.

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Education

- 2020 **Ph.D. Geographical Sciences**, University of Maryland College Park
Dissertation: Interdisciplinary Geospatial Assessment of Malaria Exposure in Ann Township, Myanmar
- 2011 **B.S. Geography**, University of Oklahoma
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Professional Experience

- 2022 – Present **Assistant Professor**, Environmental Studies Discipline, Eckerd College, St. Petersburg, FL
- 2020 – 2022 **Director of Undergraduate Studies**, Department of Geographical Sciences, University of Maryland, College Park, MD
- 2014 – 2022 **Instructor**, Department of Geographical Sciences, University of Maryland, College Park, MD
- 2016 – 2020 **Undergraduate Advising Coordinator**, Department of Geographical Sciences, University of Maryland, College Park, MD
- 2015 – 2016 **Graduate Research Assistant**, NASA Project: Arctic-Boreal Vulnerability Experiment (ABOVE) Arctic Boreal Burned Area (ABBA), Dr. Tatiana Loboda's Lab, University of Maryland College Park, MD
- 2014 – 2015 **Adjunct Professor**, Towson University, Towson, MD
- 2013 – 2016 **Graduate Research Assistant**, NASA Project: Forested land cover and land use change (LCLUC) in Northern Eurasia under the combined drivers of climate and socio-economic transformation, Dr. Tatiana Loboda's Lab, University of Maryland College Park, MD
- 2012 – 2014 **Teaching Assistant**, Department of Geographical Sciences, University of Maryland, College Park, MD
- 2012 – 2013 **Graduate Research Assistant**, NASA LCLUC Project: Synthesis of forest growth, response to wildfires and carbon storage for Russian forests, Dr. Tatiana Loboda's Lab, University of Maryland, College Park, MD
- 2012 – 2013 **Graduate Field Assistant**, NASA Carbon Monitoring System Project: A framework for high-resolution estimation of terrestrial carbon stocks and dynamics, Dr. George Hurtt's Lab, University of Maryland, College Park, MD
- 2011 – 2012 **GIS Analyst**, Chesapeake Energy, Oklahoma City, OK
- 2011 **Dam Safety Technician**, Oklahoma Water Resources Board, Oklahoma City, OK
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Funding

- 2025 Eckerd College Natural Sciences Summer Research Program, "Geospatial Assessment of Toxic Release Facilities to Disaster Risk" (\$10,800)
NSF GeoCAFE Scholar Fellow (\$2,000)
NASA SCoPE AGU SciAct Affiliate (\$2,000)
- 2024 Eckerd College Natural Sciences Summer Research Program, "Geospatial Assessment of Toxic Release Facilities to Disaster Risk" (\$7,200)

2023	Eckerd College Natural Sciences Summer Research Program, "Geospatial Assessment of Wildfire Risk for Toxic Release Facilities" (\$4,800)
	Eckerd College Institutional Technology Award Grant "PurpleAir PM Monitoring Sensors for WT: Air Quality Course" (\$927)
2020	UMD Teaching Innovation Grant, "Repurpose Geographical Sciences research space into a socially distanced laboratory for undergraduate students" (\$28,520)
	UMD Teaching Innovation Grant, "GEOG201/211: Geography of Environmental Systems" (\$6,800)
2020	UMD College of Behavioral and Social Sciences Dean's Research Initiative Undergraduate Mentored Teams Grant, "Perceptions of Geography Key Words and Program Names by University of Maryland Undergraduates" (\$1,000)
2015	UMD College of Behavioral and Social Sciences Dean's Research Initiative Dissertation Improvement Grant, "Assessing the impact of climate change on <i>Phytophthora cinnamomi</i> , a destructive forest pathogen in the northeastern United States" (\$2,500)
2014	UMD College of Behavioral and Social Sciences Dean's Research Initiative Pre-Candidacy Grant, "Assessing the impact of climate change on <i>Phytophthora cinnamomi</i> , a destructive forest pathogen in the northeastern United States" (\$1,500)

Peer-reviewed Publications

Published

1. Chen, D., Hall, J.V., Hoffman-Hall, A., Shevade, V., Argueta, F., Liang, X., Loboda, T. 2026. The Arctic Boreal Burned Area (ABBA) Product, **Geoscience Data Journal** (in press)
2. Hoffman-Hall, A. 2025. The Role of Land Cover/Land Use in Malaria Transmission in Myanmar. **Remote Sensing of Land Cover and Land Use Changes in South and Southeast Asia**, Volume 2. CRC Press 179-191.
3. Hoffman-Hall, A., Puett, R., Silva, J.A., Chen, D., Baer, A., Han, K.T., Han, Z.Y., Thi, A., Htay, T., Thein, Z.W., Aung, P., Plowe, C.V., Nyunt, M.M., Loboda, T.V., 2023. Comparison of Deforestation and Forest Land Use Factors for Malaria Elimination in Myanmar. **International Journal of Infectious Diseases - Regions**, 8: 75-83. <https://doi.org/10.1016/j.ijregi.2023.06.006>
4. Hoffman-Hall, A., M. E. Gorris, S. Anenberg, A. E. Bredder, J. K. Dhaliwal, M. A. Diaz, S. K. Fortner, B. G. McAdoo, D. Reano, R.C. Rehr, H.A. Roop, B. F. Zaitchik. 2022. A GeoHealth Call to Action: Moving Beyond Identifying Environmental Injustices to Co-Creating Solutions. **GeoHealth**, 6(11). <https://doi.org/10.1029/2022GH000706>
5. Chen, D., Shevade, V., Baer, A., He, J., Hoffman-Hall, A., Ying, Q., Li, Y., Loboda, T.V. 2021. A Disease Control-Oriented Land Cover Land Use Map for Myanmar. **Data**, 6(6), 63. <https://doi.org/10.3390/data6060063>

6. Hoffman-Hall, A., Puett, R., Silva, J.A., Chen, D., Baer, A., Han, K.T., Han, Z.Y., Thi, A., Htay, T., Thein, Z.W., Aung, P., Plowe, C.V., Nyunt, M.M., Loboda, T.V., 2020. Contextualizing Malaria Exposure in Myanmar by Combining Satellite-Derived Land Cover and Use Observations with Field Surveys. **GeoHealth**, 4, 12. <https://doi.org/10.1029/2020GH000299>
7. Bergen, K., Loboda, T., Sun, G., Newell, J., Kharuk, V., Hitztaler, S., Johnson, T., Hoffman-Hall, A., Ouyang, W., Park, K., Fort, C. (2020). Long-term trends in anthropogenic land use in Siberia and the Russian Far East: A case study synthesis from Landsat. **Environmental Research Letters**, 15, 105007. <https://doi.org/10.1088/1748-9326/ab98b7>
8. Hoffman-Hall, A., Loboda, T. V., Hall, J. V., Carroll, M. L., & Chen, D. (2019). Mapping remote rural settlements at 30 m spatial resolution using geospatial data-fusion. **Remote Sensing of Environment**, 233, 111386. <https://doi.org/10.1016/j.rse.2019.111386>
9. Jacquelyn K Shuman, J.K., Foster, A.C., Shugart, H.H., Hoffman-Hall, A., Krylov, A., Loboda, T.V., Ershov, D., and Sochilova, E. (2017). Fire disturbances and climate change: implications for Russian forests. **Environmental Research Letters**, 12(3). <https://doi.org/10.1088/1748-9326/aa5eed>
10. Chen, D., Loboda, T.V., Hoffman-Hall, A., Channan, S., (2014). Long-term record of sampled disturbances in Northern Eurasian boreal forest from pre-2000 Landsat data. **Remote Sensing**, 6: 6020-6038. <https://doi.org/10.3390/rs6076020>

Published Datasets

1. Loboda, Tatiana V; Hall, Joanne; Chen, Dong; Hoffman-Hall, Amanda; Shevade, Varada; Argueta, Fernanda; Liang, Xiaoyu (2024): Arctic Boreal Burned Area (ABBA) Product, Circumpolar Boreal Forests and Tundra, Version 2. **PANGAEA**, <https://doi.org/10.1594/PANGAEA.965193>
2. Chen, D., Baer, A., He, J., Hoffman-Hall, A., Shevade, V., Ying, Q., Loboda, T.V. 2020. Land cover land use map for Myanmar at 30-m resolution for 2016. **PANGAEA**, <https://doi.pangaea.de/10.1594/PANGAEA.921126>
3. Loboda, T.V., J.V. Hall, A.H. Hall, and V.S. Shevade. 2017. ABoVE: Cumulative Annual Burned Area, Circumpolar High Northern Latitudes, 2001-2015. **ORNL DAAC**, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDaac/1526>
4. Chen, D., T.V. Loboda, S. Channan, Hoffman-Hall, A. 2015. Russian Boreal Forest Disturbance Maps Derived from Landsat Imagery, 1984-2000. **ORNL DAAC**, Oak Ridge, Tennessee, USA. <http://dx.doi.org/10.3334/ORNLDaac/1294>

In review

1. Gabriel de Oliveira, Erin Koster, Beto Marubo, Livia Laureto, Carlos Nobre, Beatriz Funatsu, Rachel Geber-Corrêa , Cléo Dias-Júnior , Deborah Delgado Pugley , Zoe Pierrat , Marco Heredia-R , Douglas Morton , Amanda Hoffman-Hall, Lucas Maure, Qianlai Zhuang, Torsten

Krause, Taciana de Carvalho Coutinho, Guilherme Mataveli, Nathaniel Brunsell, Leonardo Ziccardi , Imelda Moise, Trent Biggs, Scott Stark, João Gilberto de Souza Ribeiro, Irene Carniatto, Dr Polyanna Bispo, Paulo de Godoy Junior, Fabien Wagner, Helber Barros Gomes, Alecsander Mergen, Fernando De Sales, Alberto Dresch Webler, Caitlyn Sutherlin, Celso Augusto Santos, Alan da Cunha, Wilderclay Barreto Machado, Katyelle Ferreira da Silva Bezerra, Eliezer Augusto Litaiff de São Paulo Aguiar, Carlos Antonio Costa dos Santos, Rodrigo Lilla Manzione, Noemi Vergopolan, J. Christopher Brown, Domênica de Melo, Eduardo Maeda , Dr Jório Bezerra Cabral Júnior, Helenilza Ferreira Albuquerque Cunha, Andre Lima, Dr Angela Abascal, Dr Michel Chaves, Jeferson Alberto de Lima , Ricardo Dalagnol, Professor Vanessa Boanada Fuchs, Dr Matheus Nunes, Gilberto Fisch , Dr Nara Luisa Reis de Andrade, Hewlley M. Acioli Imbuzeiro, Liana Anderson, Damien Arvor, Marcelo Zeri, Lennart Olsson, Celso von Randow, Mateus Batistella, Paulo Moutinho, Jean Ometto, Philip Fearnside, Paulo Artaxo. 2025. Spiraling frontier threats in Indigenous Amazonia, **Nature Sustainability** (in review)

2. Varada Shevade; Amanda Hoffman-Hall; Kay Thwe Han; Christopher V. Plowe; Myaing M. Nyunt; Tatiana V. Loboda. 2023. Using Land Use Engagement Surveys to Improve Understanding of Malaria Exposure in Myanmar's Rakhine State. **Malaria Journal**. (under review)
3. Motherscholar Collective, Alhassan, S. W., Azim, K. A., Blanks Jones, J. L., Bielski, L., Butterworth, M., Campbell-Obaid, M., Eilert, M., Frazer, A. K., Frazier, K. E., Greene, C., Greene-Rooks, J. H., Hoffman-Hall, A., Key-Delyria, S., McKagen, E. L., Myles-Baltzy, C. C., & Richardson, I. Caught between a rock and a hot place: How motherscholars engage in individual, collective, or other (in)actions to address climate precarity. In A. Davis (Ed.) **Mothering in a Time of Climate Change Precarity in North America** (proposal accepted, manuscript under review)
4. Motherscholar Collective, Pennell, S.M., Garcia-Hallet, J., Azim, K.A., Bielski, L.M., Blanks Jones, J.L., Coleman-King, C., Diaz, A., Frazer, A.K., Frazier, K.E., Greene-Rooks, J., Harmon, A., Hoffman-Hall, A., Karlsgodt, K.H., Lim, S.R., Parker-Barnes, L., & Richardson, I. Teaching with care: Turning lip service into anti-racist practice. In G. Reavis, K. Manturuk, & C Hayward (Eds.) **Creating More Inclusive and Equitable Teaching and Learning: How Crises Can Transform the Higher Education Landscape**. (proposal accepted, manuscript under review)
5. Frazier, K.E., Pennell, S. M., Greene-Rooks, J. H., Bielski, L., Richardson, I., Hoffman-Hall, A., Redefining Support: Supporting the Acamama+ in Your Life: 5 things to try today, and 3 to avoid at all costs. In The Motherscholar Collective (Ed.) **The MotherScholar Collective: A Framework for Redefining Academic Life**. (abstract accepted, manuscript under review)

Presentations

Invited

1. April 2024. Advancing Environmental Health and Justice through Geospatial Data Fusion. Invited Colloquium speaker for the **University at Buffalo Department of Geography**, Buffalo, NY.
2. December 2021. Climate Change and Health Equity: Action at the Intersection of Social Justice and Health Disparities. Invited panelist for **American Geophysical Union Fall Meeting Innovation Session**, New Orleans, LA.
3. April 2021. Fighting Malaria through Geospatial Data Fusion. Invited speaker for **AGU GeoHealth Early Career Seminar Series**, virtual. Recording: https://youtu.be/Qe_U8Kt2k9c

4. 2018. Teaching and Advising About Careers in Geography. Invited panelist at **American Association of Geographers Annual Meeting**, New Orleans, LA.

Accepted (* denotes mentored undergraduate student)

1. Hoffman-Hall, A., *Glass, E., *Price, D., *Stebbins, L., *Harris, S., *Inmon, A. Intersecting Hazards: Wildfires and Industrial Chemical Risk. Wildfires & Health: From Research to Resilience 2025, hosted by **CAFE: The Research Coordinating Center for Climate and Health, a joint initiative of Boston University School of Public Health and Harvard T.H. Chan School of Public Health**, virtual. https://www.youtube.com/watch?v=lxHP4_hmyJU
2. *Anderson, A., Hoffman-Hall, A. Indigenous Land in Oklahoma Disproportionately at Risk of Natech Disasters. **American Geophysical Union 2024**, Washington, DC.
3. Hoffman-Hall, A., Puett, R., Silva, J.A., Chen, D., Baer, A., Han, K.T., Han, Z.Y., Thi, A., Htay, T., Thein, Z.W., Aung, P., Plowe, C.V., Nyunt, M.M., Loboda, T.V., December 2023. Comparison of Deforestation and Forest Land Use Factors for Malaria Elimination in Myanmar. **American Geophysical Union Annual Meeting**, San Francisco, CA.
4. Dong Chen, Joanne Hall, Fernanda Argueta, Sofia Grossman, Amanda Hoffman-Hall, Varada Shevade, and Tatiana V Loboda. December 2023. Arctic Boreal Burned Area (ABBA): A burned area product developed specifically for circumpolar boreal forests and tundra. **American Geophysical Union Annual Meeting**, San Francisco, CA.
5. Hoffman-Hall, A., *Chen, Z., *Kuei, C., *Lutebula, N., *McPartland, C., *Mills, A. April 2021. Is Geography for Gen Z? Perceptions of Geography Key Words by University of Maryland Undergraduates. **American Association of Geographers Annual Meeting**, virtual.
6. Loboda, T.V., Puett, R., Hoffman-Hall, A., Chen, D., Shevade, V., Baer, A. November 2020. Assessing multi-scale exposure pathways in zones of patchy distribution of malaria reservoirs within remote regions of Myanmar. **American Society of Tropical Medicine and Hygiene Annual Meeting**, virtual.
7. Hoffman-Hall, A., Puett, R., Loboda, T.V., Silva, J.A., Chen, D., Baer, A., Nyunt, M., Aung, P. November 2019. Contextualizing Malaria Exposure in Myanmar by Combining Satellite-Derived Land Cover and Use Observations with Field Surveys. **American Association of Geographers Annual Meeting**, Denver, CO.
8. Hoffman-Hall, A., Puett, R., Loboda, T.V., Silva, J.A., Chen, D., Baer, A., Nyunt, M., Aung, P. November 2019. Malaria Risk in Myanmar: Contextualizing Remotely Sensed Land Cover Data with Qualitative Land Use Data to Inform Targeted Interventions. **Mid-Atlantic Division American Association of Geographers Annual Meeting**, Baltimore, MD.
9. Loboda, T. V., Carroll, M., Hoffman-Hall, A., Nyunt, M., Plowe, C. April 2019. Malaria landscape: examining the role of land cover / land use nexus in malaria transmission in Myanmar. **Global Land Programme Open Science Meeting**, Bern, Switzerland.
10. Hoffman-Hall, A., Loboda, T.V., Puett, R. April 2019. More than Mosquitoes: Malaria Risk in Ann Township, Myanmar. **American Association of Geographers Annual Meeting**, Washington DC.
11. Hoffman-Hall, A., Loboda, T.V., Hall, J. V., Carroll, M. December 2018. Rural Population Mapping at Moderate Spatial Resolutions Using Geospatial Data Fusion. **Geophysical Union Annual Meeting**, Washington DC.
12. Hoffman-Hall, A. April 2018. Mapping Population: Utilizing Satellite Derived Metrics in Data-Poor Regions. **American Association of Geographers Annual Meeting**, New Orleans, LA.
13. Hoffman-Hall, A. Assessing the impact of climate change on *Phytophthora cinnamomi*, a destructive forest pathogen in the northeastern United States. April 2014. **Association of Geographers Annual Meeting**, Tampa, FL.

Posters (* denotes mentored undergraduate student)

14. *Epley III, L., Hoffman-Hall, A. Arkansas Flood Risk and Carcinogenic TRIs Analysis. **American Geophysical Union 2024**, Washington, DC.
15. *Johnson, A., Hoffman-Hall, A. Toxic Release Inventory Facilities Impact on Vegetation Health and Wildfire Risk in the State of Hawaii. **American Geophysical Union 2024**, Washington, DC.
16. *Glass, E., Hoffman-Hall, A. Oregon Toxic Release Facilities at Risk of Wildfire. Poster presented at **Southeast Division of the American Association of Geographers 2023**, Norfolk, VA.
17. *Harris, S., Hoffman-Hall, A. TRIs and Wildfires: Country-Wide Analysis. **Southeast Division of the American Association of Geographers 2023**, Norfolk, VA.
18. *Price, D., Hoffman-Hall, A. The Wildland Urban Interface: Assessing Wildfire Risk For Toxic Release Facilities in Nevada. **Southeast Division of the American Association of Geographers 2023**, Norfolk, VA.
19. *Stebbins, L., Hoffman-Hall, A. Industrial Wildfire Risk: Western U.S. T.R.I. Facilities at Risk of Wildfire. **Southeast Division of the American Association of Geographers 2023**, Norfolk, VA.
20. Shevade, V., Hoffman-Hall, A., Loboda, T.V. December 2021. Using Land Use Engagement Surveys to Improve Understanding of Malaria Exposure In Ann Township, Myanmar. **American Geophysical Union Annual Meeting**, New Orleans, LA.
21. Hoffman-Hall, A., Puett, R., Silva, J., Chen, D., Baer, A., Plowe, C. V., Nyunt, M. M., Loboda, T. V. December 2020. Land Use Engagement and Malaria Prevalence in Ann Township, Myanmar: The Role of Forest-Related Activities. **American Geophysical Union Annual Meeting**, virtual.
22. Hoffman-Hall, A., Baer, A.E., Loboda, T.V.. December 2019. Assessing occupational exposure risk factors for subclinical malaria as a function of land cover and land use in Myanmar. **American Geophysical Union Annual Meeting**, San Francisco, CA.
23. Shevade, V., Chen, D., Hoffman-Hall, A., Baer, A., He , J., Loboda, T.V. December 2019. Identifying Population Vulnerability to Malaria in Myanmar. **Geophysical Union Annual Meeting**, San Francisco, CA.
24. *Auger, R. Hoffman-Hall, A. Water Resources Influence on Civil Conflict: Syrian Case Study. **American Association of Geographers 2019**, Washington, DC.
25. *Khan, M, Hoffman-Hall, A. Land Cover Change in Southern California. **American Association of Geographers 2019**, Washington, DC.
26. *Wilson, D., Hoffman-Hall, A. Alternate Routes to avoid Flooding in Mozambique. **American Association of Geographers 2019**, Washington, DC.
27. *Rouleau, D., Hoffman-Hall, A. Undergraduate Motivations to Enrolling in a Geographical Sciences Major. **American Association of Geographers 2019**, Washington, DC.
28. Loboda, T.V., Carroll, M., Chen, D., Hoffman-Hall, A. December 2018. Mapping and Monitoring Myanmar's Malaria Landscape. **American Geophysical Union Annual Meeting**, Washington DC.
29. Hoffman-Hall, A., Loboda, T.V., Hall, J. V., Carroll, M. October 2018. Rural Population Mapping at Moderate Spatial Resolutions Using Geospatial Data Fusion. **Race, Ethnicity, and Place Conference**, Austin, TX.
30. Loboda, T., Hoffman-Hall, A., French, N., Jenkins, L., Miller, M. E., Bourgeau-Chavez, L. April 2015. Long-term Multi-Sensor Record of Fire Disturbances in High Northern Latitudes. **Carbon Cycle and Ecosystems Joint Science Workshop**, College Park, MD.
31. Bergen, K., Loboda, T., Shugart, H. H., Newell, J., Shuman, J., Brown, D., Sun, G., Hitztaler, S., Poon, W., Hoffman-Hall, A. April 2015. LCLUC Synthesis: Forested Land-Cover and Land-Use Change in the Far East and East Siberia of Northern Eurasia under the Combined Drivers of Climate and Socio-Economic Transformation. **NASA Carbon Cycle and Ecosystems Joint Science Workshop**, College Park, MD.

32. Bergen, K., Loboda, T. Newell, J., Sun, G., Krankina, O., Blam, Y., Cui, L., Estrada, J., Hoffman-Hall, A., Hitztaler, S., Johnson, T., Park, K., Wang, Y., Wang Y.C., Wen, X. April 2014. Synthesis of Long-Term Datasets and of Trends and Variation of Landscape LCLUC Across The Russian Far East and Central Siberia. **NASA LCLUC Annual Meeting**, Rockville, MD.
 33. Chen, D., Loboda, T. V., Hoffman-Hall, A., and Weber, C. Y. Mapping stand-age distribution of Russian forests from satellite data. December 2013. **American Geophysical Union**, San Francisco, CA.
 34. Hoffman-Hall, A. Phytophthora cinnamomi and climate change. November 2013. **Research Interaction Day for Graduate and Early Career Scientists**, College Park, MD
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Other Scholarly Works

1. [Delivering an innovative cold storage solution powered by biogas / renewable energy to the Braco small farming community](#), Community-led science, Thriving Earth Exchange, American Geophysical Union 2023
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Graduate Student Researchers Supervised

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| 2023 | Luke Quattrochi, <i>Algorithm Development for Illicit Trafficking Networks Across the US-Mexico Border</i> (UMD GIS MS Capstone Project) |
| | Jack Cantilli, <i>Examining the eco-climatic drivers of Malaria in West Central Africa with predictive spatio-temporal modelling</i> (UMD GIS MS Capstone Project) |
| 2022 | Heather Caviglia, <i>Roadway Alignment Tool</i> (UMD GIS MS Capstone Project) |
| | Liam Monahan, <i>Gopher Resources LLC and Lead Exposure</i> (UMD GIS MS Capstone Project) |

Undergraduate Student Researchers Supervised

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| 2025 | Cassandra Kielty, <i>Burning Risks: A Comparative Analysis of Wildfire Threats to California's TRI Facilities</i> (Research Internship) |
| 2024 | Amelia Anderson, <i>Indigenous Land in Oklahoma Disproportionately at Risk of Natach Disasters</i> (Oral talk presented at AGU 24) |
| | Lewis Epley III, <i>Arkansas Flood Risk and Carcinogenic TRIs Analysis</i> (Poster presented at AGU 24) |
| | Amelia Johnson, <i>Toxic Release Inventory Facilities Impact on Vegetation Health and Wildfire Risk in the State of Hawaii</i> (Poster presented at AGU 24) |
| | Tobianna Aldrich, <i>TRI Risk of Storm Surge</i> (Eckerd NSSRP Research Student) |
| | Ella Crosby, <i>Environmental injustice in South Florida: Burning sugarcane may lead to increased hospitalizations from respiratory distress related to PM2.5 exposure</i> (Poster presented at Eckerd Research Symposium 2024) |

- Liz Cleveland, *Phytomyzid Parasites and Tampa Bay* (Independent Research Student)
- 2023
- Isabella Micale, Lewis Epley III, *Geospatial Assessment of Wildfire Risk for Toxic Release Facilities* (Eckerd Research Volunteer)
- Ella Glass, *Oregon Toxic Release Facilities at Risk of Wildfire* (Eckerd NSSRP Research Student, Poster presented at SEDAAG 2023, **Winner of EC Get Inspired Fest 2023 Student's Choice Award**)
- Spencer Harris, *TRIs and Wildfires: Country-Wide Analysis* (Eckerd NSSRP Research Student, Poster presented at SEDAAG 2023, **Winner of EC Get Inspired Fest 2023 Faculty Choice Award**)
- Diana Price, *The Wildland Urban Interface: Assessing Wildfire Risk For Toxic Release Facilities in Nevada* (Eckerd NSSRP Research Student, Posters presented at SEDAAG 2023)
- Lucas Stebbins, *Industrial Wildfire Risk: Western U.S. T.R.I. Facilities at Risk of Wildfire* (Eckerd NSSRP Research Student, Posters presented at SEDAAG 2023)
- Mikael Serio, *Geospatial Assessment of Wildfire Risk for Toxic Release Facilities* (Eckerd Research Volunteer)
- Diana Bernate, Cali Douthit, Calli Marshall, Jeniana Willner, *Environmental Feminism* (Eckerd Research Volunteers)
- 2022
- Avi Grant, *Disability and Accommodations in the Geosciences and Prescribed Burning Impacts on Air Quality & Health in Florida* (UMD Summer Research Internship)
- Colin Hartnett, *Potential for biochar as a climate mitigation tool* (UMD Senior Internship Thesis)
- 2021
- Paul Raeder, *Social Media Movements and Environmentalism* (UMD Senior Internship Thesis)
- 2020
- Zihan Chen, Chin-Yun Kuei, Numbi Lutebula, Caitlin McPartland, Adam Mills, *Perceptions of Geography Key Words and Program Names by University of Maryland Undergraduates* (Oral Presentation at AAG 2021)
- Benjamin Grove, *Impacts of Invasive Species on Environmental & Human Health in the United States* (Senior Internship Thesis)
- 2019
- Reiley Auger, *Water Resources Influence on Civil Conflict: Syrian Case Study* (Poster Presentation at AAG 2019)
- Mahnoor Khan, *Land Cover Change in Southern California* (Poster Presentation at AAG 2019)
- Damien Wilson, *Alternate Routes to avoid Flooding in Mozambique* (Poster Presentation at AAG 2019)
- Daryl Rouleau, *Undergraduate Motivations to Enrolling in a Geographical Sciences Major* (Poster Presentation at AAG 2019)

Teaching Experience

2022 – Present **Eckerd College (Assistant Professor)**

ES172: Introduction to Environmental Studies
25 students. In-person.

ES211: Earth Science
25 students. In-person.

ES225: Environmental and Climate Justice
25 students. In-person.

ES342: Remote Sensing
25 students. In-person.

ES357: Environmental Health
25 students. In-person.

WT1E: Air Quality
20 students. In-person.

WT1: Gulf Impact Project: Art and Climate
35 students. In-person.

AT: Critters and Contagions: Zoonotic Disease Ecology
25 students. In-person.

2014 – Present **University of Maryland College Park (Lecturer)**

2021 – 2022 **GEOG441: The Coastal Ocean**
40 students. In-person.

2020 – Present **GEOG201: Geography of Environmental Systems & GEOG211: Laboratory**
240 students. In-person and online (both synchronous and asynchronous).

2015 – 2022 **GEOG 212: Career Planning for Geographical Sciences, GIS, and Environmental Science and Policy Majors**
50 students. In person, hybrid, and online (asynchronous and synchronous).

2014 – 2017 **GEOG 306: Introduction to Quantitative Methods for Geographic and Environmental Sciences**
20 students. Online (synchronous).

2014 **GEOG 472: Advanced Remote Sensing (Co-Teacher)**
50 students. In-person.

2014 – 2015 **Towson University (Adjunct)**

2015 **GEOG 101: Introduction to Physical Geography**
75 students. In-person and online.

2014	GEOG 232: Introduction to Geographic Information Systems 20 students. In-person.
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Relevant Trainings and Certifications

June 2023	Courageous Conversations about Race <i>Hosted by the St. Petersburg Center for Health Equity</i> https://courageousconversation.com/
May 2023	Optimizing Cultural Awareness and Responsiveness in Mentoring Relationships <i>Dr. Kelly Diggs, Diggs-Andrews Consulting</i> https://diversity.ucf.edu/hispanic-serving-institution/enfermeria/optimizing-cultural-awareness-and-responsiveness-in-mentoring-relationships-workshop/
October 2021	Mental Health First Aid Training <i>National Council for Mental Wellbeing</i> https://www.mentalhealthfirstaid.org/
April 2021	Fostering Terp Success Campus Coach Training for Foster Youth <i>University of Maryland Fostering Terp Success Program</i> https://umd.edu/fostering-terp-success
Nov 2019	Trauma Informed Hate-Bias Response Training <i>University of Maryland Office of Diversity and Inclusion</i> https://diversity.umd.edu/training-education/hate-response/
August 2018	An Introduction to Evidence-Based Undergraduate STEM Teaching <i>The Center for the Integration of Research Teaching and Learning</i> http://stemteachingcourse.org/
June 2018	Teaching Institute <i>Johns Hopkins University Teaching Academy</i> https://cer.jhu.edu/teaching-academy/
May 2018	Khan Academy for Teachers 101 <i>Khan Academy</i> www.khanacademy.org
April 2018	UndocuTerp Training Series: Working with DACA, TPS, and Undocumented Students <i>University of Maryland Office of Immigrant and Undocumented Student Life</i> https://stamp.umd.edu/engagement/immigrant undocumented student life
Feb 2018	Universal Design: Making Your Course Accessible to Everyone <i>University of Maryland Teaching & Learning Transformation Center</i> www.tltc.umd.edu
Nov 2017	Teaching Backwards: Learning Outcomes & Course Design <i>University of Maryland Teaching & Learning Transformation Center</i> www.tltc.umd.edu

Awards and Honors

2025	GeoCAFE Scholar Fellowship NASA SCoPE SciAct Affiliate
2024	Making Opportunities for Mothers in Academia (MOMA) Award, Awarded by the International Association of Maternal Action and Scholarship (IAMAS) to The MotherScholar Collective
2021	AGU 2021 Editors' Citation for Excellence in Refereeing for <i>GeoHealth</i> American Association of Geographers Health and Medical Geography Specialty Group Jacques May Thesis Award
2020	O.E. Baker Award, for outstanding performance as a Graduate Student in Geographical Sciences, University of Maryland
2019	Nominated for University of Maryland Advisor of the Year Award
2018	Race, Ethnicity, and Place Conference Graduate Student Poster Competition (1 st Place) UMD BSOS Enlightening Talk (3 Minute Thesis) Competition (3 rd Place) UMD Graduate Research Appreciation Day Oral Presentation (1 st Place) Nominated for UMD College of Behavioral and Social Sciences Advisor of the Year Award
2017	Department of Geographical Sciences Excellence in Graduate Research Award (3 rd Place)
2015	Department of Geographical Sciences Outstanding Teaching Assistant
2012	University of Maryland Athletics MVP (Most Valuable Professor)
2011	University of Oklahoma Geography Chair's Best Capstone (Senior Research) Award University of Oklahoma Clyde Bollinger Award (Outstanding Senior Geography Student) Association of College Rowing Coaches Scholar Athlete Award

Service

Reviewer

2025	Reviewed manuscripts for <i>Remote Sensing of Environment</i> , <i>GeoHealth</i> , and <i>Malaria Journal</i>
2024	Reviewed manuscripts for <i>Remote Sensing of Environment</i> , <i>Applied Geography</i>
2023	Reviewed manuscripts for <i>GeoHealth</i> , <i>Epidemiology and Health</i>
2022	Reviewed manuscripts for <i>The Lancet Planetary Health</i> and <i>Remote Sensing</i>
2021	Reviewed manuscripts for <i>GeoHealth</i> , <i>International Journal of Applied Earth Observations and Geoinformation</i> , and <i>Land</i>

- 2020 Reviewed manuscripts for *International Journal of Remote Sensing* and *Environmental Research Letters*
- 2019 Reviewed manuscripts for *Science of Remote Sensing* and *International Journal of Applied Earth Observations and Geoinformation*

Professional Organization Service

- 2024 AGU24 Fall Meeting Planning Representative for GeoHealth Section
Convener for AGU24 Session: Advances in GeoHealth
- 2023 AGU23 Fall Meeting Planning Representative for GeoHealth Section
Convener for AGU23 Union Session: Climate Change and Environmental Health
Convener for AGU23 Session: Advances in GeoHealth
- 2022 Contributor to AGU-NASA Ethics in Artificial Intelligence/Machine Learning Policy:
Shelley Stall, Guido Cervone, Caroline Coward, et al. Ethical and Responsible Use of
AI/ML in the Earth, Space, and Environmental Sciences. ESS Open Archive. April 12,
2023.
DOI: [10.22541/essoar.168132856.66485758/v1](https://doi.org/10.22541/essoar.168132856.66485758/v1)
Convener for AGU Innovation Session: Equitable Change: Moving Beyond Identifying
GeoHealth Injustices to Co-Creating Solutions
- 2021 Convener for AGU Town Hall: Surviving Global Change: GeoHealth, Marginalized
Communities and Environmental Justice in the Anthropocene
- 2020 - 2023 Early Career Chair of AGU GeoHealth Section Diversity Committee

Campus Service

- 2024 - 2025 Eckerd Faculty Champion for Academic Consortium to Cultivate Engineering and
Science Opportunities ([ACCESO](#)) for Latinx Students
- 2023 - 2024 Eckerd Faculty Champion for Academic Consortium to Cultivate Engineering and
Science Opportunities ([ACCESO](#)) for Latinx Students
Athletics Committee Faculty Representative
Eckerd Writing Portfolio Reviewer (Fall and Spring)
- 2022 - 2023 Eckerd Writing Portfolio Reviewer (Fall and Spring)
Academic Research Fund Reviewer (Fall)
- 2020 – 2022 Campus Coach for UMD Fostering Terp Success

Workshop Coordinator for UMD Fostering Terp Success

TerrapinSTRONG (Campus DEI Training) Facilitator

2020 Faculty Essay Reviewer for Maryland Ascent Fellows (First Generation Baltimore City Students)

College Service

2021 – 2022 UMD College of Behavioral and Social Sciences Social Data Science Advisor Search Committee

2015 – 2016 UMD College of Behavioral and Social Sciences Dean’s Graduate Student Advisory Council Geographical Sciences Representative

2014 – 2015 UMD College of Behavioral and Social Sciences Dean’s Graduate Student Advisory Council Chair

2013 – 2014 Co-Chair of UMD College of Behavioral and Social Sciences Research Interaction Day for Graduate and Early-Career Scientists

UMD College of Behavioral and Social Sciences Dean’s Graduate Student Advisory Council Geographical Sciences Representative

Departmental Service

2020 - 2022 UMD Geographical Sciences Diversity Committee

2016 - 2022 UMD Geographical Sciences Undergraduate Committee

2014 – 2015 UMD Center for Geospatial Information Science Director Search Committee

2013 – 2014 UMD Geographical Sciences Orientation Committee

2012 – 2013 UMD Geographical Sciences Awards Committee

Professional Organizations

2014 – Present American Association of Geographers

2018 – Present American Geophysical Union

2011 – Present Gamma Theta Upsilon (Geography Honors Society)