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

Professional Experience

2020 – Present	**Director of Undergraduate Studies**, Department of Geographical Sciences, University of Maryland, College Park, MD
2014 – Present	**Instructor**, Department of Geographical Sciences, University of Maryland, College Park, MD
2017 – 2020	**Ph.D. Candidate**, Interdisciplinary Geospatial Assessment of Malaria Exposure in Ann Township, Myanmar, 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
	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

Funded Grants

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 *Phytophthora cinnamomi*, 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 *Phytophthora cinnamomi*, a destructive forest pathogen in the northeastern United States" ($1,500)

Publications

In review

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. Malaria Prevalence in Myanmar: The Influence of Forest Cover, Forest Loss, and Forest Use. Submitted to **Remote Sensing** Special Issue: "Remote Sensing and Infectious Disease"

Published

Chen, D., Shevade, V., Baer, A., He, J., Hoffman-Hall, A., Ying, Q., Li, Y., Loboda, T.V. A Disease Control-Oriented Land Cover Land Use Map for Myanmar. **Data,** 6(6), 63. https://doi.org/10.3390/data6060063

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

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

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

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

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
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

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

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

Presentations

Invited
Hoffman-Hall, A. April 2021. Fighting Malaria through Geospatial Data Fusion. Invited speaker for **AGU GeoHealth Early Career Seminar Series**, virtual. Recording: https://youtu.be/Qe_U8Kt2k9c

Hoffman-Hall, A., Buenemann, M., Labosier, C., Shabram, P., Porter-Morgan, H., Maeer, J. April 2018. Teaching and Advising About Careers in Geography. Invited panelist at **American Association of Geographers Annual Meeting**, New Orleans, LA.

Accepted
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.

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.

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.

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.

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.

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.

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.

Hoffman-Hall, A. April 2018. Mapping Population: Utilizing Satellite Derived Metrics in Data-Poor Regions. **American Association of Geographers Annual Meeting**, New Orleans, LA.

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
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. Poster presented at **American Geophysical Union Annual Meeting**, New Orleans, LA.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Hoffman-Hall, A. Phytophthora cinnamomi and climate change. November 2013. **Research Interaction Day for Graduate and Early Career Scientists**, College Park, MD

Undergraduate Student Researchers Supervised

2021   Paul Raeder, *Social Media Movements and Environmentalism* (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

<u>2014 – Present</u>   **University of Maryland College Park (Lecturer)**

2021 – Present   **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 – Present   **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**
50 students. In-person.

2014 – 2015   <u>**Towson University (Adjunct Professor)**</u>

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.

Relevant Trainings and Certifications

October 2021   **Mental Health First Aid Training**
National Council for Mental Wellbeing
https://www.mentalhealthfirstaid.org/

April 2021   **Fostering Terp Success Campus Coach Training for Foster Youth**
University of Maryland Fostering Terp Success Program
https://umd.edu/fostering-terp-success

Nov 2019   **Trauma Informed Hate-Bias Response Training**
University of Maryland Office of Diversity and Inclusion
https://diversity.umd.edu/training-education/hate-response/

August 2018   **An Introduction to Evidence-Based Undergraduate STEM Teaching**
The Center for the Integration of Research Teaching and Learning
http://stemteachingcourse.org/

June 2018   **Teaching Institute**
Johns Hopkins University Teaching Academy
https://cer.jhu.edu/teaching-academy/

May 2018   **Khan Academy for Teachers 101**
Khan Academy
www.khanacademy.org

April 2018	**UndocuTerp Training Series: Working with DACA, TPS, and Undocumented Students** *University of Maryland Office of Immigrant and Undocumented Student Life* https://stamp.umd.edu/engagement/immigrant_undocumented_student_life
Feb 2018	**Universal Design: Making Your Course Accessible to Everyone** *University of Maryland Teaching & Learning Transformation Center* www.tltc.umd.edu
Nov 2017	**Teaching Backwards: Learning Outcomes & Course Design** *University of Maryland Teaching & Learning Transformation Center* www.tltc.umd.edu

Awards and Honors

Spring 2020	O.E. Baker Award, for outstanding performance as a Graduate Student in Geographical Sciences, University of Maryland
Spring 2019	Nominated for University of Maryland Graduate Advisor of the Year Award
Fall 2018	Race, Ethnicity, and Place Conference Graduate Student Poster Competition (1st Place)
Spring 2018	BSOS Enlightening Talk (3 Minute Thesis) Competition (3rd Place)
	UMD Graduate Research Appreciation Day Oral Presentation (1st Place)
	Nominated for College of Behavioral and Social Sciences Advisor of the Year Award
Spring 2017	Department of Geographical Sciences Excellence in Graduate Research Award (3rd Place)
Spring 2015	Department of Geographical Sciences Outstanding Teaching Assistant
Fall 2012	University of Maryland Athletics MVP (Most Valuable Professor)
Spring 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

2021	Reviewed manuscripts for "GeoHealth", "International Journal of Applied Earth Observations and Geoinformation", and "Land"

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

2021	Session Organizer for AGU Town Hall: Surviving Global Change: GeoHealth, Marginalized Communities and Environmental Justice in the Anthropocene
2020 - Present	Early Career Chair of AGU GeoHealth Section Diversity Committee

Campus Service

2020 – Present	Workshop Coordinator for Fostering Terp Success
2020 – Present	TerrapinSTRONG (Campus DEI Training) Facilitator
2020	Faculty Essay Reviewer for Maryland Ascent Fellows (First Generation Baltimore City Students)

College Service

2021	College of Behavioral and Social Sciences Social Data Science Advisor Search Committee
2015 – 2016	College of Behavioral and Social Sciences Dean's Graduate Student Advisory Council Geographical Sciences Representative
2014 – 2015	College of Behavioral and Social Sciences Dean's Graduate Student Advisory Council Chair
2013 – 2014	Co-Chair of College of Behavioral and Social Sciences Research Interaction Day for Graduate and Early-Career Scientists
	College of Behavioral and Social Sciences Dean's Graduate Student Advisory Council Geographical Sciences Representative

Departmental Service

2020 - Present	UMD Geographical Sciences Diversity Committee
2016 - Present	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)