

Dr. Dong Chen

Department of Geographical Sciences
University of Maryland, College Park
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Employment

- Associate Research Professor** [July 2023 - Present]
Department of Geographical Sciences, University of Maryland, College Park, MD, USA
- Assistant Research Professor** [July 2020 - June 2023]
Department of Geographical Sciences, University of Maryland, College Park, MD, USA
- Lecturer** [January 2019 - June 2021]
Department of Geographical Sciences, University of Maryland, College Park, MD, USA
- Postdoctoral Associate** [August 2017 - June 2020]
Department of Geographical Sciences, University of Maryland, College Park, MD, USA
Supervisor: Dr. Tatiana Loboda
- Faculty Assistant** [May 2017 - August 2017]
Department of Geographical Sciences, University of Maryland, College Park, MD, USA
Supervisor: Dr. Tatiana Loboda

Education

- Doctor of Philosophy** [2011 - 2017]
Department of Geographical Sciences, University of Maryland, College Park, MD, USA
Dissertation: Fire-induced Albedo Change and Associated Surface Forcing in Siberian Larch Forests
Advisor: Dr. Tatiana Loboda
- Master of Science** [2009 - 2011]
Department of Geography, University of Georgia, Athens, GA, USA
Thesis: Modeling Feral Swine Distribution in Georgia Using Logistic and Autologistic Regression
Advisor: Dr. Marguerite Madden
- Bachelor of Science** [2005 - 2009]
Environmental Science, School of Resource and Environmental Science,
Wuhan University, Wuhan, Hubei, China
Thesis: A Research on the Landscape Pattern Change in East Dongting Lake Based on Remote Sensing and GIS

Teaching Experience as Instructor

- GEOG 421: Changing Geographies of China** [Spring 2021]
Department of Geographical Sciences, University of Maryland; 3-credit
- GEOG 376: Introduction to Programming for GIS** [Summer 2019]
Department of Geographical Sciences, University of Maryland; 3-credit
- GEOG 376: Introduction to Programming for GIS** [Spring 2019]
Department of Geographical Sciences, University of Maryland; 3-credit

Graduate Assistantships

- Graduate Research Assistant** [2011 – 2017]
Department of Geographical Sciences, University of Maryland, College Park, MD, USA
- Research Assistant** [2010 – 2011]
Department of Geography, University of Georgia, Athens, GA, USA
- Teaching Assistant** [2009 – 2010]
Department of Geography, University of Georgia, Athens, GA, USA
Course: Resources, Society, and the Environment

Successful Grants

[2021 - 2022]

PI for Dean's Research Initiative Seed Grant from College of Behavioral and Social Sciences at University of Maryland "Characterizing recent wildfire regimes across the circumpolar Arctic tundra in the context of climate change" (\$10,162).

[2019 - 2022]

Co-I for NASA Arctic Boreal Vulnerability Experiment project "Assessing impact of climate-driven increase in wildfire emissions on air quality and health of urban and indigenous populations in Alaska" (\$811,299; PI: Tatiana Loboda).

Pending and Planned Proposals

PI for project "Effectiveness of current and future fuel treatments across the conterminous US" (submitted to the Joint Fire Science Program of the Bureau of Land Management on 12/19/2022; \$473,000).

Co-I for project "Fire and Ice: The future of circumpolar tundra biomes under climate-driven change in fire regimes" (submitted to NASA Interdisciplinary Research in Earth Science Program on 11/22/2022; PI: Tatiana Loboda; \$1.47 million).

PI for project "Assessing the current climate-induced trend in wildfire severity across the circumpolar boreal forests" (to be submitted to NASA Land-Cover/Land-Use Change Program on 5/23/2022; \$250,000).

Publications

- [Chen, D.](#), Fu, C., Jenkins, L. K., He, J., Jandt, R.R., Frost, G.V., Baer, A., & Loboda, T.V. (in 3rd round of review at Nature Plants). Fire-vegetation interactions in Arctic tundra and their spatial variability
 - [Chen, D.](#), Billmire, M., Loughner, C.P., Bredder, A., French, N., Kim, H.C., & Loboda, T.V. (in 2nd round of revision with Science of the Total Environment). Simulating spatio-temporal dynamics of surface PM2.5 emitted from Alaskan wildfires
 - Herzberger, A., Viña, A., Dou, Y., Sun, J., [Chen, D.](#), Yang, H., Tong, Y., & Liu, J. (in 3rd round of review at Nature Sustainability). International food trade led to air pollution beyond trading countries
 - Hoffman-Hall, A., Puett, R., Silva, J.A., Chen, D., Baer, A., Shevade, V., Han, Z.Y., Han, K.T., Aung, P.P., Plowe, C.V., Nyunt, M.M., & Loboda, T.V. (in review at Health and Place). Comparison of Deforestation and Forest Land Use Factors for Malaria Elimination in Myanmar
 - Zhu, X., [Chen, D.](#) (2nd and corresponding author among 30 coauthors), et al. (to be submitted to Earth System Science Data). Long-term (1966-2020) synthesized field survey database across the Alaskan tundra
 - [Chen, D.](#), Hall, J.V., Loboda, T.V., Hoffman-Hall, A., & Shevade, V.S. (to be submitted to Earth System Science Data). A burned area product specifically for circumpolar boreal forests and Arctic tundra
1. Foster, A.C., Wang, J.A., Frost, G.V., Davidson, S.J., Hoy, E., Turner, K.W., Sonnentag, O., Epstein, H., Berner, L.T., Armstrong, A.H., Kang, M., Rogers, B.M., Campbell, E., Miner, K.R., Orndahl, K.M., Bourgeau-Chavez, L.L., Lutz, D.A., French, N., [Chen, D.](#), Du, J., Shestakova, T.A., Shuman, J.K., Tape, K., Virkkala, A.-M., Potter, C., & Goetz, S. (2022). Disturbances in North American boreal forest and Arctic tundra: Impacts, interactions, and responses. **Environmental Research Letters** <https://doi.org/10.1088/1748-9326/ac98d7>
 2. Li, Y., Stewart, K., Han, K.T., Han, Z.Y., Aung, P.P., Thein, Z.W., Htay, T., [Chen, D.](#), Nyunt, M.M., & Plowe, C.V. (2022). Understanding spatio-temporal human mobility patterns for malaria control using a multi-agent mobility simulation model. **Clinical Infectious Diseases** <https://doi.org/10.1093/cid/ciac568>

3. [Chen, D.](#), Shevade, V., Baer, A.E., & Loboda, T.V. (2021). Missing burns in the high northern latitudes: The case for regionally focused burned area products. **Remote Sensing**, 13, 4145 <https://doi.org/10.3390/rs13204145>
4. [Chen, D.](#), Fu, C., Hall, J.V., Hoy, E.E., & Loboda, T.V. (2021). Spatio-temporal patterns of optimal Landsat data for burn severity index calculations: Implications for high northern latitudes wildfire research. **Remote Sensing of Environment**, 258, 112393 <https://doi.org/10.1016/j.rse.2021.112393>
5. [Chen, D.](#), Loboda, T.V., Silva, J.A., & Tonellato, M.R. (2021). Characterizing Small-Town Development Using Very High Resolution Imagery within Remote Rural Settings of Mozambique. **Remote Sensing**, 13, 3385 <https://doi.org/10.3390/rs13173385>
6. [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, 63 <https://doi.org/10.3390/data6060063>
7. He, J., Loboda, T.V., [Chen, D.](#), & French, N.H.F. (2021). Cloud-to-ground lightning and near-surface fire weather control wildfire occurrence in Arctic tundra. **Geophysical Research Letters**, 48, e2021GL096814 <https://doi.org/10.1029/2021GL096814>
8. He, J., [Chen, D.](#), Jenkins, L., & Loboda, T.V. (2021). Impacts of wildfire and landscape factors on organic soil properties in Arctic tussock tundra. **Environmental Research Letters** <https://doi.org/10.1088/1748-9326/ac1192>
9. [Chen, D.](#), Loboda, T.V., & Hall, J.V. (2020). A systematic evaluation of influence of image selection process on remote sensing-based burn severity indices in North American boreal forest and tundra ecosystems. **ISPRS Journal of Photogrammetry and Remote Sensing**, 159, 63-77 <https://doi.org/10.1016/j.isprsjprs.2019.11.011>
10. Hoffman-Hall, A., Puett, R., Silva, J., [Chen, D.](#), Baer, A., Han, K.T., Han, Z.Y., Thi, A., Htay, T., Thein, Z.W., Aung, P.P., Plowe, C., Nyunt, M.M., & Loboda, T. (2020). Malaria Exposure in Ann Township, Myanmar as a Function of Land Cover and Land Use: Combining Satellite Earth Observations and Field Surveys. **GeoHealth**, 4. <https://doi.org/10.1029/2020GH000299>
11. 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>
12. He, J., Loboda, T.V., Jenkins, L., & [Chen, D.](#) (2019). Mapping fractional cover of major fuel type components across Alaskan tundra. **Remote Sensing of Environment**, 232, 111324 <https://doi.org/10.1016/j.rse.2019.111324>
13. [Chen, D.](#), & Loboda, T.V. (2018). Surface forcing of non-stand-replacing fires in Siberian larch forests. **Environmental Research Letters**, 13, 045008. <https://doi.org/10.1088/1748-9326/aab443>
14. [Chen, D.](#), Loboda, T.V., He, T., Zhang, Y., & Liang, S. (2018). Strong cooling induced by stand-replacing fires through albedo in Siberian larch forests. **Scientific Reports**, 8, 4821. <http://dx.doi.org/10.1038/s41598-018-23253-1>
15. Loboda, T.V., & [Chen, D.](#) (2017). Spatial distribution of young forests and carbon fluxes within recent disturbances in Russia. **Global Change Biology**, 23, 138-153. <http://dx.doi.org/10.1111/gcb.13349>
16. [Chen, D.](#), Loboda, T.V., Krylov, A., & Potapov, P.V. (2016). Mapping stand age dynamics of the Siberian larch forests from recent Landsat observations. **Remote Sensing of Environment**, 187, 320-331. <http://dx.doi.org/10.1016/j.rse.2016.10.033>
17. [Chen, D.](#), Loboda, T., Channan, S., & Hoffman-Hall, A. (2014). Long-Term Record of Sampled Disturbances in Northern Eurasian Boreal Forest from Pre-2000 Landsat Data. **Remote Sensing**, 6, 6020-6038. <http://dx.doi.org/10.3390/rs6076020>

Datasets

- Loboda, T.V., Hall, J.V., Hall, A.H., Shevade, V.S., & [Chen, D.](#) (Archiving in process). ABoVE: Arctic Boreal Burned Area (ABBA), 2001-2021, V2. ORNL Distributed Active Archive Center, Oak Ridge, Tennessee, USA.
1. [Chen, D.](#), Billmire, M., Bredder, A., French, N.H.F., & Loboda, T.V. (2023). Simulated Fine Particulate Matter (PM2.5) Estimates over Alaska, 2001-2015. ORNL Distributed Active Archive Center, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/2157>
 2. [Chen, D.](#), Zhu, X., Kogure, M., Hoy, E., Xu, X., French, N., Berner, L.T., Breen, A.L., Bret-Harte, M.S., Davidson, S.J., Ebersole, J.J., Frost, G.V., Goetz, S.J., Hewitt, R.E., Hollingsworth, T.N., Hung, J.K.Y., Iversen, C.M., Iwahana, G., Jandt, R.R., Jenkins, L.K., Kade, A.N., Klupar, I., Loboda, T.V., Ludwig, S.M., Macander, M.J., Mack, M.C., Meyers, C.R., Michaelides, R.J., Miller, E.A., Natali, S.M., Nawrocki, T.W., Nelson, P.R., Parsekian, A.D., Rastetter, E., Reynolds, M.K., Rocha, A.V., Schaefer, K., Schickhoff, U., Schuur, E.A.G., Tsuyuzaki, S., Tweedie, C.E., Vargas, S., Walker, D.A., Webber, P.J., Williams, M., & Zona, D. (2023). Long-term synthesized field survey database across the Alaskan tundra. ORNL Distributed Active Archive Center, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/2177>
 3. Loboda, T.V., Jenkins, L.K., [Chen, D.](#), He, J., & Baer, A. (2022). Burned and Unburned Field Site Data, Noatak, Seward, and North Slope, AK, 2016-2018. ORNL Distributed Active Archive Center, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/1919>
 4. [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.org/10.1594/PANGAEA.921126>
 5. He, J., Loboda, T.V., Jenkins, L., & [Chen, D.](#) (2020). ABoVE: Distribution Maps of Wildland Fire Fuel Components across Alaskan Tundra, 2015. ORNL Distributed Active Archive Center, Tennessee, USA <https://doi.org/10.3334/ORNLDAAC/1761>

6. Loboda, T.V., Chen, D., Hall, J.V., & He, J. (2018). ABoVE: Landsat-derived Burn Scar dNBR across Alaska and Canada, 1985-2015. ORNL Distributed Active Archive Center, Oak Ridge, Tennessee, USA. <https://doi.org/10.3334/ORNLDAAC/1564>
7. Chen, D., Loboda, T.V., Krylov, A., & Potapov, P.V. (2017). Distribution of Estimated Stand Age Across Siberian Larch Forests, 1989-2012. ORNL Distributed Active Archive Center, Oak Ridge, Tennessee, USA. <http://dx.doi.org/10.3334/ORNLDAAC/1364>
8. Loboda, T.V., & Chen, D. (2016). Distribution of Young Forests and Estimated Stand Age across Russia, 2012. ORNL Distributed Active Archive Center, Oak Ridge, Tennessee, USA. <http://dx.doi.org/10.3334/ORNLDAAC/1330>
9. Chen, D., Loboda, T.V., Channan, S., & Hoffman-Hall, A. (2015). Russian Boreal Forest Disturbance Maps Derived from Landsat Imagery, 1984-2000. ORNL Distributed Active Archive Center, Oak Ridge, Tennessee, USA. <http://dx.doi.org/10.3334/ORNLDAAC/1294>

Service

Research and Community Leadership

- 2023:
 - Principal Lead of NASA's Arctic-Boreal Vulnerability Experiment (ABoVE) Disturbance Working Group
 - Leading tundra wildfire synthesis activities
 - Leading monthly working group meetings
 - Curating presentation series at monthly working group meetings
- 2022:
 - Deputy Lead of NASA's ABoVE Disturbance Working Group
 - Primary convener of session "Dynamic Disturbance Processes in Permafrost Regions" at 2022 AGU Fall Meeting
 - Member of the World Meteorological Organization (WMO) Fire & Arctic Working Group
 - Guest editor of Remote Sensing Special Issue "Remote Sensing Applications in Wildfire Research and Management"
- 2021: Judge for the Outstanding Student Presentation Awards at 2021 AGU Fall Meeting
- 2020: Judge for the Outstanding Student Presentation Awards at 2020 AGU Fall Meeting
- 2019: Judge for the Outstanding Student Presentation Awards at 2019 AGU Fall Meeting

Mentorship

- 2023:
 - Mentored a research intern funded by the NASA Wildland Fire Management Program (co-mentored with Dr. Joanne Hall, Program Coordinator of the NASA Wildland Fire Management Program)
 - Mentored a research intern funded by the NASA ABoVE program (co-mentored with Dr. Elizabeth Hoy from the NASA Goddard Space Flight Center)
- 2022:
 - Funded and mentored an undergraduate student working on my tundra wildfire project
 - Mentored a research intern funded by the NASA ABoVE program (co-mentored with Dr. Elizabeth Hoy from the NASA Goddard Space Flight Center)
 - Mentored an undergraduate student on her course of independent research (GEOG398)

Manuscript Reviews

- 2022: Reviewed
 - 1 manuscript for Remote Sensing of Environment
 - 1 manuscript for Geophysical Research Letters
 - 1 manuscript for Biogeosciences
- 2021: Reviewed
 - 1 manuscript for Remote Sensing in Ecology and Conservation
 - 1 manuscript for Sensor
 - 1 manuscript for Remote Sensing
 - 1 manuscript for Anthropocene
 - 1 manuscript for Journal of Geophysical Research – Biogeosciences
 - 1 manuscript for Environmental Research Letters
- 2020: Reviewed
 - 1 manuscript for Forests
 - 1 manuscript for International Journal of Wildland Fire

- 2019: Reviewed
 - 1 manuscript for International Journal of Wildland Fire
 - 1 manuscript for Scientific Data
 - 1 manuscript for Environmental Research Communications
 - 1 manuscript for Earth's Future
 - 1 manuscript for ISPRS Journal of Photogrammetry and Remote Sensing
- 2018: Reviewed
 - 1 manuscript for International Journal of Wildland Fire
- 2017: Reviewed
 - 2 manuscripts for Journal of Geophysical Research – Atmospheres

Department Service

- 2019-2023: Department Committee member at the Department of Geographical Sciences, University of Maryland
- 2021: Member of departmental graduate student recruiting team targeting Chinese universities (duties: proposed the idea; organized a panel of past and current Ph.D. students and researchers who communicated with Chinese university students through live meetings)

Presentations (as presenter)

- Chen, D., Fu, C., Jenkins, L. K., He, J., Jandt, R.R., Frost, G.V., Baer, A., & Loboda, T.V. "Fire-vegetation interactions in Arctic tundra and their spatial variability", a poster presentation at the AGU Fall Meeting, Chicago, IL, December 2022
- (Invited) Chen, D. "Ice & Fire: Wildfires in the high northern latitude regions under climate change", an oral presentation at the department seminar at the Department of Geographical Sciences, University of Maryland, College Park, MD, October 2022
- (Invited) Chen, D. and Baer, A. "Wildfire Emissions and Their Impact on Air Quality and Health in Alaska", an oral presentation at the "Research to Operations (R2O): Using Remotely Sensed Data in Fire and Resource Management" workshop, Fairbanks, AK, May 2022
- Chen, D., Fu, C., Jenkins, L. K., He, J., Jandt, R.R., Frost, G.V., Baer, A., & Loboda, T.V. "Fire-vegetation interactions in Arctic tundra and their spatial variability", an oral presentation at the 8th ABoVE Science Team Meeting, Fairbanks, AK, May 2022
- (Invited) Chen, D., Shevade, V., Baer, A., Loboda, T.V., "The need for regionally focused burned area products in the high northern latitudes", an oral presentation for the Alaska Fire Science Consortium (AFSC) webinar series (virtual), March 2022
- Chen, D., Shevade, V., Baer, A., Loboda, T.V., "The need for regionally focused burned area products in the high northern latitudes", an oral presentation at the AGU Fall Meeting, New Orleans, LA, December 2021
- Chen, D., Baer, A., Loboda, T.V., "Missing burns in the high northern latitudes: The case for regionally focused burned area products", an oral presentation at the 7th ABoVE Science Team Meeting (virtual), May 2021
- (Invited) Chen, D. "Wildfires in high northern latitude regions under climate change", an oral presentation at the department seminar at the Department of Geographical Sciences, University of Maryland, College Park, MD, March 2021
- Chen, D., Baer, A., Billmire, M., He, J., Loboda, T.V., "Simulating spatio-temporal dynamics of surface PM2.5 emitted from Alaskan wildfires using HYSPLIT", an oral presentation at the AGU Fall Meeting (virtual), December 2020
- Chen, D., Loboda, T.V., Jenkins, L., & He, J. "Assessing long-term impact of wildfires on shrubification in Alaskan tundra based on in-situ and remotely sensed data", a poster presentation at the 6th ABoVE Science Team Meeting (virtual), June 2020
- Chen, D., Loboda, T., Hall, J., & Boucher, J. "A more consistent alternative to the differenced Normalized Burn Ratio (dNBR) as a proxy for burn severity in North American boreal forests", a poster presentation at the AGU Fall Meeting, San Francisco, CA, December 2019
- Loboda, T., French, N.H., Chen, D., Billmire, M., & Baer, A. "Quantifying variability in fire-driven PM2.5 concentrations within Alaska during years of low, moderate, and high fire activity", a poster presentation at the AGU Fall Meeting, San Francisco, CA, December 2019
- Loboda, T., French, N.H., Chen, D., Billmire, M., & Baer, A. "Modeling and assessing fire-driven PM2.5 concentrations within Alaska", a poster presentation, NASA Terrestrial Ecology Science Team Meeting, College Park, MD, September 2019
- Loboda, T.V., Jenkins, L., Chen, D., & He, J. "Building trajectories of tussock tundra post-fire recovery from field observations", a poster presentation at the 5th ABoVE Science Team Meeting, La Jolla, CA, May 2019
- (Invited) Chen, D. "Ice & Fire: Wildfires in the high northern latitude ecosystems", an oral presentation at the 6th Wuhan University International Forum for Interdisciplinary Sciences and Engineering, Wuhan, China, April 2019
- Chen, D., Loboda, T.V., & Hall, J. "Quantitative evaluation of the influences of multiple factors on the differenced Normalized Burn Ratio in North American ecosystems", a poster presentation at the AGU Fall Meeting, Washington DC, December 2018

- Loboda, T.V., Carroll, M., Chen, D., & Hoffman-Hall, A. “Mapping and Monitoring Myanmar’s Malaria Landscape”, a poster presentation at the AGU Fall Meeting, Washington DC, December 2018
- (Invited) Chen, D. “Fire-induced surface forcing in the Siberian larch forests”, an oral presentation at the 2017 Silk Road Innovation Forum on Surveying, Remote Sensing, and Geographical Information Sciences, Xi’An, China, December 2017
- Chen, D., Loboda, T., He, T., Zhang, Y., & Liang, S. “Fire-induced surface forcing of the Siberian larch forests since 2000 in the context of climate change”, an oral presentation at the AGU Fall Meeting, New Orleans, LA, December 2017
- Loboda, T.V., Chen, D., He, J., & Jenkins, L.K. "Quantifying Fire Impact on Alaskan Tundra from Satellite Observations and Field Measurements", an oral presentation at the AGU Fall Meeting, New Orleans, LA, December 2017
- Chen, D., Loboda, T., He, T., Zhang, Y., & Liang, S. “Fire-induced surface forcing of the Siberian larch forests since 2000 in the context of climate change”, a poster presentation at the NASA Alaska Fire Science Consortium (AFSC) Workshop, Fairbanks, AK, April 2017
- Chen, D., Loboda, T.V., Krylov, A., & Potapov, P.V. “Mapping post-disturbance stand age distribution in Siberian larch forest based on a novel method”, a poster presentation, NASA Carbon Cycle & Ecosystems Joint Workshop, College Park, MD, April 2015
- Chen, D., Loboda, T., Krylov, A., & Potapov, P. “Mapping post-disturbance stand age distribution in Siberian larch forest based on a novel method”, a poster presentation at the AGU Fall Meeting, San Francisco, CA, December 2014
- Chen, D., Loboda, T., Hall, A., Channan, S., & Weber, C. “Mapping stand-age distribution of Russian forests from satellite data”, a poster presentation at the AGU Fall Meeting, San Francisco, CA, December 2013
- Chen, D., & Loboda, T.V. “A decision-tree-based method for reconstructing disturbance history in the Russian boreal forests over 30 years”, a poster presentation at the AGU Fall Meeting, San Francisco, CA, December 2012
- Loboda, T., Chen, D., & Hight-Harf, C. "Reconstructing a 40-year record of forest disturbance in Russia from contemporary satellite data", an oral presentation at the AGU Fall Meeting, San Francisco, CA December 2012
- Chen, D., & Madden, M. "Modeling Feral Swine Distribution in Georgia Using Logistic and Autologistic Regression”, an oral presentation at the AAG Annual Meeting, New York, NY, February 2012
- Chen, D. “3D Building Extraction and Visualization Based on Single High Resolution Satellite Images”, a poster presentation at the Fall Specialty Conference of the American Society of Photogrammetry and Remote Sensing / Cartography and Geographic Information Society, Orlando, FL, November 2010
- Chen, D. “3D Building Extraction and Visualization Based on Single High Resolution Satellite Images”, an oral presentation at the Geospatial Conference of the Mid-south Chapter of the American Society of Photogrammetry and Remote Sensing, Athens, GA, October 2010

Awards

- Outstanding Research Faculty, Department of Geographical Sciences, University of Maryland, College Park, MD, May 2022
- Postdoctoral Conference Support Award, Graduate School, University of Maryland, College Park, MD, October 2017 (\$480).
- Excellence in Graduate Research Award, Department of Geographical Sciences, University of Maryland, College Park, MD, May 2017 (First Place, \$500).
- Best Poster Presentation, NASA Alaska Fire Science Consortium (AFSC) Workshop, Fairbanks, AK, April 2017.
- Travel Award, NASA Alaska Fire Science Consortium (AFSC) Workshop, Fairbanks, AK, April 2017 (Airfare reimbursed, \$670).
- Excellence in Graduate Research Award, Department of Geographical Sciences, University of Maryland, College Park, MD, May 2016 (First Place, \$500).
- Dean’s Fellowship, Behavioral & Social Sciences College, University of Maryland, College Park, MD, September 2015 (\$5,000).
- Excellence in Graduate Research Award, Department of Geographical Sciences, University of Maryland, College Park, MD, May 2015 (Second Place, \$250).
- Outstanding Student Paper Award at the American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 2013.
- 1st place in the Student Paper Competition at the 2011 Georgia Urban and Regional Information Systems Association (URISA) Conference, Atlanta, GA, April 2011 (\$500).
- 2nd place in the Student Paper Competition at the 2010 Geospatial Conference of the Mid-south Chapter of the American Society of Photogrammetry and Remote Sensing (ASPRS), Athens, GA, October 2010 (\$100 and a free one-year membership of ASPRS).

Internship

Unpaid Research Intern at NASA Goddard Space Flight Center, June 2012 – August 2012
Supervisors: Dr. Mark Carroll

Field Work Experiences

Arctic tundra region in Alaska (Seward Peninsula)	July – August 2017
Arctic tundra region in Alaska (Noatak River)	July – August 2016
Arctic tundra region in Alaska (Brooks Range North Slope)	August 2012
Joseph W. Jones Ecological Research Center, Newton GA	September 2010

Skills

Computer Language: IDL, R, Python, Linux
Software: ArcGIS, ENVI, SPSS, Tableau
Computing platforms: High-Performance Computing (HPC) clusters, Google Earth Engine

Certificates

Collaborative Institutional Training Initiative (Citi) Certificate for Social & Behavioral Research	2015-2022
Citi Certificate for Biomedical Research	2019-2022
Citi Certificate for Conflict of Interest	2022-2026