Gargi Chaudhuri

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PROFESSIONAL EXPERIENCE

2022 - Present	- Professor, Dept. of Geography and Earth Science, University of Wisconsin-La Crosse	
2018 - 2022	- Associate Professor, Dept. of Geography and Earth Science, University of Wisconsin-La Crosse	
	- Faculty Affiliate, River Studies, University of Wisconsin-La Crosse	
2014 - Present	- Faculty Affiliate, Center of South Asia, University of Wisconsin	
2012 – 2018	- Assistant Professor, Dept. of Geography and Earth Science, University of Wisconsin-La Crosse	
Nov 2011 – Jul 2012	- Postdoctoral Fellow, Resilience and Adaptive Management Group, University of Alaska Anchorage	
2007 – 2011	- Graduate Research Assistant/ Teaching Assistant/ Instructor, Dept. of Geography, University of California Santa Barbara	
Jun – Sept 2010	- Graduate Student Intern, Geographic Information Science and Technology Group, Oak Ridge National Laboratory	

EDUCATION

2021-2022	IBM Data Science Professional Certification Issued by: Coursera, authorized by: IBM [verify here]
2007 - 2011	Ph.D. in Geography University of California Santa Barbara Specialization: Geographic Information Science and Urban Analytics Advisor: Prof. Keith C. Clarke
2005 - 2007	M.Sc. in Geography University of Calcutta Specialization: Cartography Advisor: Prof. A. R. Ghosh
2002 - 2005	B.Sc., in Geography Shri Shikshayatan College, University of Calcutta Specialization: Cartography; Minor: Economics and Political Science

PUBLICATIONS

Peer-reviewed Journals:

- Chaudhuri, G. and Karkun-Sen, S. (accepted), Defining Urban India: Finding order in chaos, in Joshi, P. K., and Gagne, S., (Eds), Landscape Ecological Science from India [Special Issue], Current Landscape Ecology Reports, Vol. 8, pg. 171 180.
 - Chaudhuri, G. and Mishra, N. B. (2023), Detection of Aquatic Invasive Plants in Wetlands of the Upper Mississippi River from UAV Imagery Using Transfer Learning, Remote Sensing 15(3), 734;
 - Mishra, N. B., Miles, E. S., *Chaudhuri, G.*, Mainali, K., Mal, S., Singh, P. B., Tiruwa, B. (2022), Quantifying heterogeneous monsoonal melt on a debriscovered glacier in Nepal Himalaya using repeat uncrewed aerial system (UAS) photogrammetry, Journal of Glaciology 68 (268), 288-304;
- Chaudhuri, G., Mainali, K. P., and Mishra, N. B. (2022), Analyzing the dynamics of urbanization in Delhi National Capital Region in India using satellite image time series analysis, Environment and Planning B, Vol. 49(1) 368–384;
 - Mishra, N. B., Miles, E. S., *Chaudhuri*, G., Mainali, K. P., Mal, S., Singh, P. B., and Tiruwa, B. (2022), Quantifying heterogeneous monsoonal melt on a debriscovered glacier in Nepal Himalaya using repeat uncrewed aerial system (UAS) photogrammetry, Journal of Glaciology 68(268), 288–304. https://doi.org/10.1017/jog.2021.96;
- Chaudhuri, G., and Clarke, K. C. (2019), Modeling an Indian megalopolis—a case study on adapting SLEUTH urban growth model. Computer, Environment, and Urban System, Vol 77: 101358.
- Chaudhuri, G., Mishra, N. B. (2016), Spatio-temporal dynamics of land cover and land surface temperature in Ganges-Brahmaputra Delta: A comparative analysis between India and Bangladesh. Applied Geography, Vol. 68, pp. 68-83;
- Dutta, S., and *Chaudhuri*, *G*. (2015), Mapping Environmentally Sensitive Areas of Rajasthan in Western India, Geographical Review, Vol. 105 (4): 441-461;
 - Mishra, N. B., and *Chaudhuri, G.* (2015), Spatio-temporal Analysis of Trends in Seasonal Vegetation Productivity across Uttarakhand, Indian Himalayas, 2000-2014, Applied Geography, Vol. 56, pp. 29-41;
 - Chaudhuri, G., and Clarke, K. C. (2015), On the Spatiotemporal Dynamics of the Coupling between Land Use and Road Networks: Does Political History Matter? Environment and Planning B, Vol. 42: 133-156;
- Chaudhuri, G., and Clarke, K. C., (2014), Temporal sensitivity in urban growth modeling: A case study using SLEUTH, Transactions in GIS, Vol. 18(2): 302–320

- Chaudhuri, G., and Clarke, K. C. (2013), The SLEUTH Land Use Change Model: A Review, International Journal of Environmental Resources Research, Vol. 1(1): 88 104.
 - *Chaudhuri, G.,* and Clarke, K. C. (2013), How does land use policy affect urban growth? A case study on the Italo-Slovenian border, Journal of Land Use Science, Vol. 8(4): 443-465

<u>Full Papers in Peer-Reviewed Conference Proceedings:</u>

- Chaudhuri, G., and Foley, S. (2019), DSLEUTH: a distributed version of SLEUTH urban growth model, SpringSim-ANSS 2019, April 29-May 2, Tucson, AZ, USA;
 ©2019 Society for Modeling and Simulation (SCS) International
- 2017 *Chaudhuri, G.* (2017), Simulating urban growth in South Asia: A SLEUTH Application, Proceedings of Geocomputation 2017, September 5 7, University of Leeds, UK.
- *Chaudhuri, G.*, and Clarke, K. C. (2011), Temporal limitations of urban growth modelling, Proceedings of Geocomputation 2011, July 20 22, University College London, UK.

Peer-reviewed Book Chapters and Encyclopedia Entries: (*undergrad. student)

- Chaudhuri, G. (2020), Land Change and Water Resource Vulnerability, Version
 In Wang, Y. Q. (Ed), The Handbook of Natural Resources, Second Edition,
 Fresh Water and Watersheds, Taylor & Francis Group, ISBN: 9781138337565
- Chaudhuri, G., and Mishra, N. B. (2016), Relationship between changes in land cover and land surface temperature: A study of South Bengal, India. In A. Haldar and L. N. Satpati (Eds.), Climate and Society- A Contemporary perspective, The Registrar, University of Calcutta, Kolkata, India. ISBN: 978-81-923448-0-5.
 - Mishra, N. B., and *Chaudhuri*, *G*. (2016). Spatially Variable Vegetation Greenness Trends in Uttarakhand Himalayas in Response to Environmental Drivers. In Singh, R. B., Schickhoff, U., and Mal, S. (Eds.), Dynamics of Climate, Glaciers and Vegetation in Himalaya: Contribution towards Future Earth Initiatives, Springer, Germany.
- Chaudhuri, G. (2014), Land Change and Water Resource Vulnerability. In Wang,
 Y. Q. (Ed), Encyclopedia of Natural Resources: Three Volume Set of Land, Air
 and Water, Taylor & Francis Group, DOI: 10.1081/E-ENRL-120051107
 - *Chaudhuri, G.*, *Oxley, S, and *Wenzlaff, S. (2014), Mapping spatio-temporal patterns of liquor law violation citations in college town of La Crosse, Wisconsin. In Elmes, G., Roedl, G. and Conley, J. (Eds.) 'Forensic GIS: The Role of Geospatial

Technologies for Investigating Crime and Providing Evidence', Geotechnologies and the Environment, Vol. 11, pp. 201-220, Springer, ISBN 978-94-017-8756-7.

Non-peer reviewed Conference Proceedings and Presentations: (*undergrad. student)

- Chaudhuri, G., and Mishra, N. B. (2022), Detection of aquatic invasive species using deep learning technologies and very high-resolution UAV imagery, Ecological Society of America Conference, August 16, Montreal, Canada.
 - *Chaudhuri, G.* (2022), Detection of Aquatic Invasive Plants Using Deep Learning Based Semantic Segmentation Approach, Wisconsin Space Grant Consortium, August 12, Carroll University, Waukesha, WI.
 - *Chaudhuri, G.,* and Mishra, N. B. (2022), Automatic detection of aquatic invasive plant species from UAV imagery using deep learning technologies, Mississippi River Research Consortium, April 21, Radisson Convention Center, La Crosse, WI
 - *Chaudhuri, G.*, Mainali, K. P., and Mishra, N. B. (2022), Analyzing the dynamics of urbanization in Delhi National Capital Region in India using satellite image time-series analysis, 2022 Virtual AAG Annual Meeting, Abstract Processing, February 28, 2022.
- *Fenelon, E., *Killmer, R., and *Chaudhuri, G.* (2020), Measuring accessibility of public transit system in the La Crosse-Onalaska WI-MN Metropolitan Statistical Area, West Lakes AAG Annual Meeting 2020 (Virtual), November 13.
- *Kim, B. and *Chaudhuri*, *G*. (2019), Mapping Slums of Mumbai in India using Machine Learning, Poster presented at 2019 National Council for Undergraduate Research (NCUR), April 29, Kennesaw State University, GA, USA
 - *Molls, M. and *Chaudhuri, G.* (2019), Developing a Social Deprivation Index for Use in Socially Equitable Planning, Poster presented at 2019 National Council for Undergraduate Research (NCUR), April 29, Kennesaw State University, GA, USA
- Chaudhuri, G. and Sen, S. (2018), Spatio-temporal analysis of violent crime,
 Session on GIS applications in Social Science, West Lakes AAG Annual Meeting
 2019, November 3-5, University of Wisconsin-La Crosse, WI, USA
 - *Chaudhuri, G.* (2018), Modeling urban growth in Eastern India using SLEUTH land use model, Session on Modeling Human-Environment Interactions: Applications in the Urban Environment, sponsored by Geographic Information System and Science Specialty Group, Abstract Proceedings, 2017 AAG Annual Meeting, April 8, Boston, MA, USA
- Chaudhuri, G. (2017), Modeling urban growth in Eastern India using SLEUTH land use model, Session on Modeling Human-Environment Interactions:
 Applications in the Urban Environment, sponsored by Geographic Information System and Science Specialty Group, Abstract Proceedings, 2017 AAG Annual Meeting, April 8, Boston, MA, USA

- *Meckstroth, J., and *Chaudhuri*, G. (2017), The Effect of Food Deserts on Obesity Rates, Poster Session on Geographic Information Science, 2017 AAG Annual Meeting, Abstract Processing, April 6, Boston, MA, USA
- *Larson, M., *DeShaney, J., and *Chaudhuri, G.* (2017), Comparative Analysis of Crime in Chicago and Milwaukee, Poster presented at 2017 National Council for Undergraduate Research (NCUR), April 5, Memphis, TN, USA
- Chaudhuri, G. (2016), Forecasting future urbanization in Kolkata (India) using SLEUTH land use change model, Session on Urbanization in South and Southeast Asia, sponsored by Asian Geography Specialty Group, Abstract Proceedings, 2016 AAG Annual Meeting, April 20 25, San Francisco, CA, USA
- Chaudhuri, G. (2015), Spatio-temporal dynamics between and land cover change and land surface temperature: A comparative study between India and Bangladesh, Session on South Asia Initiative, sponsored by Asian Geography Specialty Group, Abstract Proceedings, 2015 AAG Annual Meeting, April 20 25, Chicago, Illinois, USA
 - *Hamel, D., and *Chaudhuri*, *G*. (2015), Bike accessibility in La Crosse, WI, Abstract Proceedings, 2015 AAG Annual Meeting, April 20 25, Chicago, Illinois, USA
 - *Rugtvedt, J., and *Chaudhuri, G.* (2015) Road Network Analysis of Oslo, Abstract Proceedings, 2015 AAG Annual Meeting, April 20 25, Chicago, Illinois, USA
- Chaudhuri, G. (2014), 'Understanding the Effect of Policy on Urban Growth:
 Cellular Automata Modeling Approach', Land Cover Land Use Change Spring
 Science Team Meeting 2014 Focus on Urban LCLUC, Poster Presentation, April
 23 25, Rockville, Maryland.
 - *Chaudhuri, G.* (2014), 'Urban Growth Forecasting: Limits of temporal accuracy in SLEUTH land use change model', Land Change Modeling I: Methods and Techniques Session, Abstract Proceedings, 2014 AAG Annual Meeting, April 7 12, Tampa, Florida, USA
- Chaudhuri, G. (2013), Characterizing patterns of urban growth in southern part of the Ganges delta region in India, 26th International Cartographic Conference, August 25 30, Dresden, Germany.
 - Chaudhuri, G. (2013), Analyzing land use and land cover change patterns in the Ganges delta region of India, Land Systems Science Symposium, Abstract Proceedings, 2013 AAG Annual Meeting, April 8 – 12, Los Angeles, California, USA
 - Mishra, N. B., and Chaudhuri, G. (2013), 'Characterizing the Physical Environment of Kolkata by Spectral Unmixing of Landsat TM, NASA LCLUC Science Team Meeting-2013, International Regional Science Meeting on "Land

- Use Land Cover Change and its Dynamics", January 10 13, Karunya University, Coimbatore India.
- Chaudhuri, G., and Clarke, K. C. (2012), 'Impact of Policy on Urban Growth', SLEUTH Symposium I, sponsored by Spatial Analysis and Modeling Specialty Group, Urban Geography Specialty Group, Geographic Information Science and Systems Specialty Group, Abstract Proceedings, 2012 AAG Annual Meeting, February 24 28, New York City, New York, USA
- Chaudhuri, G., Bhaduri, B. L., Singh, N., and Clarke, K. C. (2011), Expanding Bioenergy and Land Use Change: A Spatially Explicit Modeling Approach, Abstract Proceedings, 2011 AAG Annual Meeting, April 12 16, Seattle, Washington, USA
- Goodchild, M.F., *Chaudhuri, G.*, Hakes, C., Mullaney, K., Royal, N., Mihatov, P., Chehayeb, Z. (2010), 'Spatial Database for Off-shore Energy and Mineral Resources Infrastructure, Pacific West Coast Region', Spatial@UCSB.local10 conference, University of California Santa Barbara, June 2010
 - *Chaudhuri, G.* (2010), 'Urban Growth in a Trans-Border Region', Abstract Proceedings, 2010 AAG Annual Meeting, April 14 18, Washington DC, Columbia, USA
- Chaudhuri, G., and Clarke, K. C. (2009), 'Impact of Urban Policy on Urban Growth', EUGEO 2009, Abstract Proceedings of Second International Congress on the Geography of Europe, August 13 16, Bratislava, Slovakia
 - Chaudhuri, G., and Clarke, K. C. (2009), 'Transportation as a Determinant of Land Use Change Over Time', Abstract Proceedings, 2009 AAG Annual Meeting, March 22 – 27, Las Vegas, Nevada, USA
- Chaudhuri, G. (2008), 'Changing Mode of Transportation Infrastructure in Kolkata, India', 14th Annual UCTC Conference, University of California Santa Barbara, February 2008
- Chaudhuri, G., Dhar, P., and Sarkar, R. (2007), 'Disaster Management in India',
 Proceedings of International Seminar on Poverty and Development in South Asia,
 January 11-13, 2007, Department of Geography, University of Calcutta, India
- Chaudhuri, G. (2004), 'Melting of the Gangotri glacier', Department of Geography, Shri Shikshayatan College, University of Calcutta.

GRANTS

 The Geography of Long-Term Care: Implications for SSI and Understanding Disparities in Living Arrangements Among Older Adults, Social Security Administration (Co PI-\$80,000)

2021	- Detection of Aquatic Invasive Plants Using Deep Learning Based Semantic Segmentation Approach, NASA Wisconsin Space Grant Consortium Research Infrastructure Program Award (PI: \$20,000)
2018 - 2020	- Monitoring, analysis, and research on Asian Carp in Mississippi river pool 8, USGS (Co-PI: \$40,000)
	- UWL Graduate Studies Grant: Developing Master's Program in GIS (\$4,000)
2017	- UWL Travel Grant (\$3,350)
2016	- UWL Faculty Research Grant: 'DSLEUTH: Distributed SLEUTH modeling' (Co-PI - \$7,500)
2015	- UWL Online Course Development Grant (\$3,000)
2014	- Digital Globe Foundation Imagery Grant: World View-2 imagery (~\$4,000)
	- UWL Faculty Research Grant: 'Application of SLEUTH model to simulate
	and forecast land use land cover change in the southern part of Ganges delta region in India' (\$6,920)
2013	- UWL Curriculum Redesign Grant: 'GIS Curriculum Restructuring', (Co-PI: \$10,000)
	- UWL International Development Fund Crosse (\$3,350)
	- Travel award by U.S. National Committee (USNC) to the International Cartographic Association (\$1,500)
	- Imagery Grant (SPOT and Quickbird) by Planet Action, Astrium GEO Initiative (~\$64,000)
2011	- Jack and Laura Dangermond Travel Award (\$1,000)
	- University of California Santa Barbara Academic Senate Graduate Student Travel Grant (\$1,000)
	- Jack and Laura Dangermond Travel Award (\$900)
2010	- Jack and Laura Dangermond Travel Award (\$900)
2009	- University of California Transportation Center (UCTC) Dissertation Research Grant (\$20,000)
	- Jack and Laura Dangermond Travel Award (\$1000)

TEACHING EXPERIENCE

Courses Taught:

University of Wisconsin-La Crosse

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- GEO 102: Maps & Society	- GEO 401: Geography Capstone	
- GEO 200: Conservation of Environment	- GEO 405/505: GISS-II	
- GEO 305: GISS-I	- GEO 455/555: Webmapping	
- GEO 309: Cities: Past, Present, and Future	- GEO 465/565: Scripting in GIS	
- GEO 310: Transportation Equity	- GEO 485/585: GISS-III	
University of California Santa Barbara (as Instructor or Teaching Assistant)		

University of California Santa Barbara (as Instructor or Teaching Assistant)

- Geog 12: Maps and Spatial Reasoning
 - Geog 184: Cart. Design & Geographic Vis.
 - Geog 126: Maps in Science and Society
 - Geog 210C: Statistical Methods in Geography

- Geog 128: Analytical & Computer Cart. - Geog 288KC/195KC: GIS Research

Research Supervisor/ Thesis Committee Member:

2022 - 2023	- Jamie Schoen, Drivers of urbanization in megaregions in US, BS in Geography with GIS Concentration
	- Marcos Alfaro, Spatial disparity of long-term care in US, BS in Geography with GIS Concentration
2020 - 2023	- Kristen Baranowski, Habitat modeling for flammulated owl, MS in Biology with Environmental Sc. Concentration
2019 –2021	 Ethan Fenelon and Ryan Killmer, Measuring accessibility of public transit system in the La Crosse-Onalaska WI-MN Metropolitan Statistical Area, Undergrad. Research, BS in Geography with GIS Concentration Annika Willie, SLEUTH Data Visualization, Undergrad. Research, BS in Computer Science Elise Baumgartner, SLEUTH modification in Python and Kubernetes, MS in Computer Science
2019 - 2020	 Ethan Lucas, Detecting purple loosestrife from drone imagery using deep learning classification, BS in Geography with GIS Concentration Sydney Graff, Developing Interactive Webmap for Himalayan Database using Leaflet, BS in Geography with Environmental Sc. Concentration
2018 - 2019	 Mathew Peck, Interactive map and geodatabase development for UWL campus, BS in Geography with GIS Concentration Maxwell Molls, Developing a social deprivation index using American Community Survey data, BS in Geography with GIS Concentration Bo Kim, Mapping slums using World View imagery and deep learning classification, BS in Geography with GIS Concentration
2017 - 2018	 Jeff Meckstroth, The Effect of Food Deserts on Obesity Rates, BS in Geography with GIS Concentration Jenna DeShanney and Mitch Larson, Comparative analysis of violent crimes in Chicago and Milwaukee, BS in Geography with GIS/Env. Sc. Concentration
2015 - 2016	 Evan Weiss, Developing Geospatial Database and Mapping Mountaineering Patterns in Himalaya between 1950-2006, BS in Geography Benjamin Lamb, Crime Analysis in Milwaukee, WI, BS in Geography with GIS Concentration
2014 - 2015	 Dylan Hamel, Bike Accessibility in La Crosse, BS in Geography with GIS Concentration Jonas Rugtvedt, Road network analysis of Oslo, BS in Geography with GIS Concentration Matthew Drummon, Comparative analysis of spatio-temporal distribution

of crime, BS in Geography with GIS Concentration

- Susan Smith, Mapping Lake Superior barrels risk factors for potential leaks or failures, BS in Geography with GIS Concentration
- 2013 2014 Arthur Brueske, Land Use and Land Cover Change in Bangladesh, BS in Geography with GIS Concentration
 - Marlee Crave, Mapping Food Desert in La Crosse County, BS in Geography
- 2012 2013 Eric Smits, 3D Mapping of UWL campus buildings, BS in Geography with Env. Sc. Concentration
 - Dominick Del Ponte, Predictive model to analyze the historical location of the primitive city of Troad, BA Sociology and Archeology, Thesis Committee

SYNERGETIC ACTIVITIES

Invited Talks and Panel Discussions:

- Invited Speaker, "Lightening Talk: Detection of Aquatic Invasive Plants in Wetlands of the Upper Mississippi River from UAV Imagery Using Transfer Learning", Women in GIS Professional Development Community, Online, August 4, 2023.
- Guest Lecture, Indian Institute of Technology Kharagpur, May 15, 2023 May 22, 2023.
 - o Land use land cover modeling: Focus on urban simulation.
 - o Future directions for Geospatial Computing.
- Organizer, 'RDPSG Signature Panel: Rethinking urban planning post pandemic', Panel Discussion, sponsored by Regional Development and Planning Specialty group, 2023 Annual Meeting of American Association of Geographers, Denver, March 27, 2023.
- Invited Speaker, Accessibility and mobility in La Crosse-Onalaska Metropolitan Area, Community Transportation Academy by UWL & 1000 Friends of Wisconsin, March 1, 2023.
- Invited Speaker, International webinar on understanding applied methodologies in Geography from Flood Hazard Monitoring to Urban Modeling, Saheed Nurul Islam Mahavidyalaya, West Bengal, India, November 23, 2021.
- Panelist and Organizer, 'RDPSG Signature Panel: Urban resilience and inequality in the post-pandemic era', Panel Discussion, sponsored by Regional Development and Planning Specialty group, 2022 Virtual Annual Meeting of American Association of Geographers, Feb. 26, 2022.
- Panelist and Organizer, 'RDPSG Signature Panel: Urban Planning and Resilience during the Global Pandemic', Panel Discussion, sponsored by Regional Development and Planning Specialty group, Virtual Annual Meeting of American Association of Geographers, April 9, 2021.
- Invited Panelist, 'Transforming Spaces and Spatial Practices', Panel Discussion, sponsored by Regional Development and Planning Specialty group, Annual Meeting of American Association of Geographers, New Orleans April 13, 2018.
- Invited Panelist, 'Career Directions after graduation', Geography Capstone, Fall 2017, UWL
- Invited Blog Post, Teaching Techbits#16: Google Fusion Tables, May 3, 2016.
- Invited Talk, "Field data collection using GeoODK and Google Maps", Department of History, UWL, February 25, 2015.

- Invited Talk, 'Data Visualization with Google Fusion Table', UWL Passport to Technology, January 30, 2015.
- Presenter, "Characterizing Spatio-Temporal Distribution of Land Use and Land Cover Change in Ganges Delta Region", 20th Annual Faculty Research Day, UWL, January 23, 2015.
- Invited Talk, Relationship between road network change and urban growth',
 Undergraduate Colloquium, Department of Geosciences, Winona State University April 14, 2014.
- Invited Talk, 'Modeling the effects of political history on urban growth', Graduate Colloquium, Department of Geography, Northern Illinois University, October 25, 2013.
- Invited Talk, 'Impact of policy on interaction between land use road network and its change over time', Resilience and Adaptive Management Lab, Department of Biological Sciences, University of Alaska Anchorage, December 2012.
- Presenter, 'Land Use and Land Cover Change The Role of Transportation', Fall Colloquium Series, Department of Geography, University of California Santa Barbara, October 2008.

Invited Reviewer:

- Reviewer for Grant Proposals:
 - National Science Foundation, Geography and Spatial Science Program (2018)
 - University of California Transportation Center Dissertation Grant (2012)
- <u>Peer Review Journals</u>: Applied Geography; Computer, Environment and Urban System; Environmental Monitoring and Assessment; Environment and Planning B; Geographical Review; Habitat International; International Journal of Environmental Resources Research; Journal of Rural Studies; Landscape and Urban Planning; Land Use Policy; Sustainability; Transactions in GIS; Urban Geography; Urban Studies; Urbanization.

Professional Services:

- Chair, Regional Development and Planning Specialty group of Association of American Geographers, (2022 2023)
- Paper session organizer on 'GIS Application in Social Science', West Lakes AAG Annual Meeting 2019, November 3, University of Wisconsin-La Crosse, WI, USA.
- Session Chair, 'South Asia Symposium', paper presentations, sponsored by Asian geography Specialty group, Annual Meeting of American Association of Geographers 2016.
- Paper session organizer on 'Urbanization of South and Southeast Asia' sponsored by Regional Development and Planning Specialty group, Annual Meeting of American Association of Geographers 2016.
- Judge of the Graduate Student Poster Competition for Remote Sensing, GIS and Cartography, sponsored by Remote Sensing Specialty Group, Association of American Geographers (2015 and 2016)
- Session Chair, 'South Asia Symposium', paper presentations, sponsored by Asian geography Specialty group, Annual Meeting of American Association of Geographers 2015.
- Co-organizer of SLEUTH Symposium included two paper sessions with 5 papers in each and one panel discussion, Annual Meeting of American Association of Geographers 2012.

- Student Representative of the Regional Development and Planning Specialty group of Association of American Geographers (2009 – 2010)

Services within University of Wisconsin-La Crosse:

- Joint Promotion Committee (2023 Present)
- Faculty Library Committee (2021-2022)
- Undergraduate Research and Creativity Grant Committee (2018 2021)
- Individuals with Disability and Assessment Committee (2018 2020)
- Undergraduate Curriculum Committee (2015 –2018)
- Academic Technology Committee (Spring 2014 Spring 2015)
- Sabbatical Review Committee, College of Science and Health, University of Wisconsin-La Crosse (2013 - 2014)
- Women of Color Group (Fall 2013 Present)
- Women in Science and Health (Fall 2012 Present)
- Department of Geography and Earth Science:
 - GIS Graduate Certificate Advisor
 - Search and Screen committee, Human-Environment Interaction Non-tenure track position (Chair, 2021)
 - Post-tenure Review committee (Chair, 2020 Present)
 - Promotion and tenure committee (2018 Present)
 - Organizer of Humanitarian Mapathon (Fall 2017)
 - Equity Liaison (2017 2019)
 - Outreach Coordinator (2017 2018)
 - Scholarship By-Laws Committee (Spring 2017 Present)
 - Equipment and Software Purchase Committee (2013 2014)
 - Organizer, Student GIS Poster Competition (2013 Present)
 - GIS Liaison/Consultant (Fall 2012 Present)
 - Organizer, GIS day (Nov. 2012)
 - Search and Screen Committee for the position of
 - Human Geographer (Fall 2015)
 - Physical Geographer (Fall 2013)
 - Geoscience Education (Fall 2012)

Services at previous institutions:

- Conducted GIS workshop for Denai'na community leaders of Native Village of Eklutna at Resilience and Adaptive Management Group, University of Alaska, Anchorage (December 2011).
- UC Online, e-learning course development, University of California Online Instruction Pilot Project (August November 2011)
- Supervised 'Interactive Campus Map Project' at University of California Santa Barbara
- Developed graduate level course on Geographic Information Science (Geog 288) for Instructional Development, University of California Santa Barbara (July – September 2008)
- Mentored undergraduate students at University of California Santa Barbara

Community Services:

- Commissioner, Board of Planning Commission, City of Onalaska, WI (2021-2022)
- Volunteer, La Crosse Active Together, YMCA (2020 2021)
- Committee member, Board of Zonal Appeals, City of Onalaska, WI (2020 –2021)
- Volunteer, Community Helpers, YMCA Child Care, Onalaska, WI (Fall 2019)
- Mapping Consultant (Pro Bono), La Crosse Navy League, La Crosse, WI (Spring 2017)
- Reviewer, Middle School Science and Math Expo, La Crosse, WI (Spring 2016)
- Mapping Consultant (Pro Bono), Camp Winnebago, Caledonia, MN (Spring 2015)
- Mapping Consultant (Pro Bono), Outdoor Recreation Alliance of the 7 Rivers Region, La Crosse, WI (Fall 2012)
- President and Member of Indian Association of Santa Barbara (2007 2011)