

## **Debarchana (Debs) Ghosh**

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<https://scholar.google.com/citations?user=4SsQUu0AAAAJ&hl=en>

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### **Professional Experience**

- 2017 - ..... • Associate Professor, Department of Geography, University of Connecticut (UConn), Storrs
- 2011 - 2017 • Assistant Professor, Department of Geography, University of Connecticut (UConn), Storrs
- 2011 - ..... • Principal Investigator of Institute for Collaboration on Health, Intervention and Policy, UConn, Storrs
- 2011 - ..... • Affiliate member of Center for Environmental Science and Engineering (CESE), UConn, Storrs
- 2011 - ..... • Affiliate member of Center for Interdisciplinary Research on AIDS, Yale University, School of Medicine, New Haven, Connecticut.
- 2015 - 2018 • Elected Board Member of Spatial Analysis and Modeling Specialty Group of American Association of Geographers (AAG)
- 2012 - 2013 • Chair of Health and Medical Geography Specialty Group, AAG
- 2009 - 2011 • Assistant Professor, Department of Geography, Kent State University (KSU), Ohio
- 2009 - 2010 • Geographic Information Science Minor Coordinator, KSU

### **Education**

- 2005 – 2009 • Ph.D. (Geography), Department of Geography, University of Minnesota  
*Advisors: Dr. Robert B. McMaster and Dr. Steven M. Manson*
- 2002 – 2004 • M.Phil (Population Studies), Jawaharlal Nehru University, India
- 2000 – 2002 • M.A (Geography), Jawaharlal Nehru University, India
- 1997 – 2000 • B.Sc. (Geography), Presidency College, University of Calcutta, India

### **Publications**

- Zhang, Mengyao, **Ghosh, D.** 2017. What's actually inside the grocery stores? A multidimensional assessment of access to local grocery stores in Greater Hartford Area of Connecticut, USA. *The Professional Geographer*. Under Revision.
- Sander, H., **Ghosh, D.**, and Hodson, CB. 2017. Are greener neighborhoods healthier? Varying associations between body mass index and urban green space. *Urban Forestry and Urban Greening*. Vol 26: 1-10  
doi: <http://dx.doi.org/10.1016/j.ufug.2017.05.016>
- Zhang, Mengyao, **Ghosh, D.**, and Liu, Z. 2017. An application of the Google Direction API and Geographic Information System to measure transit-based travel time. *International Journal of Applied Geospatial Research*. Under Review after 1<sup>st</sup> Revision.

- Brown, Shan-Estelle, **Ghosh, D**, Taxman, FS., Lawson, W., and Altice, FL. 2017. Access to HIV-care services among opioid-dependent PLH in Washington, DC: A mixed method analyses. *Journal of Health Care for the Poor and Underserved*. Under Review.
- **Ghosh, D.**, Krishnan, A., Gibson, B., Brown, S., Latkin, CA., and Altice, FL. 2016. Social Network Strategies to Address HIV Prevention and Treatment Continuum of Care Among At-risk and HIV-infected Substance Users: A Systematic Scoping Review. *AIDS and Behavior*. 1-25  
PMID: 27125244.  
doi: <http://link.springer.com/article/10.1007/s10461-016-1413-y>
- Zhang, Mengyao\*, and **Ghosh, D**. 2015. Spatial supermarket redlining and neighborhood vulnerability: A case study of Hartford in Connecticut. *Transactions in GIS*. Vol 20 (1): 79-100  
PMCID: PMC4810442  
doi: 10.1111/tgis.12142  
\* PhD Student
- Denton, CJ.\*, **Ghosh, D.**, Taxman, FS., Altice, FL. 2015. Geographic accessibility to addiction, mental health, and HIV/AIDS health-care services for opioid-dependent clients. *Addiction Science & Clinical Practice*. Vol 10 (Suppl 1): A10. PMCID: PMC4347456  
doi: 10.1186/1940-0640-10-S1-A10  
\* PhD Student
- **Ghosh, D\***, Gibson, BG\*, Morano, JP., and Altice, FL. 2014. Accessibility and utilization patterns of a mobile medical clinic among vulnerable populations. *Health and Place*. Vol 28: 152-166. PMCID: PMC4475348  
doi: <http://dx.doi.org/10.1016/j.healthplace.2014.04.008>.  
\*Joint first authors
- Martin K., **Ghosh, D.**, Page M., Wolff M., McMinimee K., and Zhang, M.\* 2014. What role do local grocery stores play in urban food environments? A case study of Hartford Connecticut. *PlosOne*. Apr 9; Vol 9(4): e94033. PMCID: PMC398175257  
doi: 10.1371/journal.pone.0094033  
\* PhD Student
- **Ghosh. D.**, and Guha, R. 2013. What are we 'tweeting' about obesity? Mapping tweets with Topic Modeling and Geographic Information System. *Cartography and Geographic Information Science*. Special Issue of 'Mapping Cyberspace'. Vol 40(2): 90-102. PMCID: PMC4128420  
doi: 10.1080/15230406.2013.776210
- **Ghosh. D.**, Sterns, A., Drew, B., and Hamera, E. 2011. Geospatial Analysis of Psychiatric Mental Health Advanced Practice Nurses in the United States. *Psychiatric Services*. Vol 62: 1506-1509. PMID: 22193800  
doi: 10.1176/appi.ps.000532011
- **Ghosh, D.**, and Guha, R. 2011. Using a neural network for mining interpretable relationships of West Nile risk factors. *Social Science and Medicine*. Vol 72 (3): 418 – 429. PMID: 20950908  
doi: 10.1016/j.socscimed.2010.09.014
- **Ghosh, D**. 2011. How do heterogeneous urban environment facilitate West Nile virus transmission in the Twin Cities Metropolitan Area of Minnesota? Ed: *Geospatial Analysis of Environmental Health*. Publisher: Springer-Verlag. Chapter 7: 153-169

- Sanders, H., **Ghosh, D.**, Riper, DV., and Manson, SM. 2010. How do you measure distance to open space? Impacts of different types of distance on open space values calculated using a hedonic pricing model. *Environmental and Planning B*. Vol 37: 874 - 894. doi:10.1068/b35126
- **Ghosh, D.**, and Guha, R. 2010. Use of genetic algorithm and neural network approaches for risk factor selection: A case study of West Nile virus dynamics in an urban environment. *Computers, Environment and Urban Systems*. Vol 34 (3): 189-203. doi: 10.1016/j.compenvurbsys.2010.02.007
- **Ghosh, D.**, and McMaster, RB. 2010. *Manual of Geospatial Science and Technology, 2/e*. Contributed chapter 34: *Biophysical and Human-Social Applications*. Pg 669 - 687. Taylor and Francis Group LLC, Boca Raton, Florida.
- **Ghosh, D.**, and Guha, R. 2010. A Risk factor analysis of West Nile virus: Extraction of relationships from a neural-network model. In *Proceedings: International Conference on Social Computing, Behavioral Modeling, and Prediction*. Vol 6007: Pg 208 – 217. LNCS 6007. Springer.
- **Ghosh, D.**, Manson, SM., and McMaster, RB. 2010. Delineating West Nile Virus transmission cycles at various scales: The Nearest Neighbor Distance-Time model. *Cartography and Geographic Information Science*. Vol 37(2): 149 – 163. PMID: PMC3491911 doi: 10.1559/152304010791232208
- Manson, SM., Sander, HA., **Ghosh, D.**, Oakes, JM., Orfield, MW., Craig, WJ., Luce, TF., Myott, E., Sun. S. 2009. Parcel data for research and policy. *Geography Compass* Vol 3(2): 698 – 726. doi: 10.1111/j.1749-8198.2008.00209.x
- **Ghosh, D.**, and Manson, SM. 2008. Robust Principal Component Analysis and Geographically Weighted Regression: Urbanization in the Twin Cities Metropolitan Area. *The URISA Journal* Vol 20 (1): 15 – 25. PMID: PMC3693392
- **Ghosh, D.** 2007. West Nile Virus. In P. Robbins (ed.) *The Encyclopedia of Environment and Society*. London: Sage Publications.
- **Ghosh, D.** 2007. Infant Mortality Rate. In P. Robbins (ed.) *The Encyclopedia of Environment and Society*. London: Sage Publications.
- **Ghosh, D.** 2007. Epidemics. In P. Robbins (ed.) *The Encyclopedia of Environment and Society*. London: Sage Publications.
- **Ghosh, D.** 2007. Predicting Vulnerability of Indian Women to Domestic Violence Incident. *Research and Practice in Social Sciences* 3(1): 48 – 72.
- **Ghosh, D.** 2006. Effect of Exposure to Electronic Mass Media on the Knowledge and Use of Prenatal Care Services: A Comparative Analysis of Indian States. *The Professional Geographer*. Vol 58 (3): 278 – 293. doi: 10.1111/j.1467-9272.2006.00568.x

### Awards

- 2016 • Travel and training award on ‘Optimization of Behavioral and Biobehavioral Interventions’ organized by National Institute of Health (NIH) and Penn State University. Bethesda, MD
- 2015 • Emerging Scholar Award in Health and Medical Geography, American Association of Geographers (AAG)
- 2014 • Teaching Innovation Award. American Association of University Professors (AAUP)

- Excellence Award, UConn
- 2011 • Institute on Systems Science and Health, University of Pittsburgh, PA. Office of Behavioral and Social Science Research of NIH and Center for Disease Control and Prevention
- 2010 • Finalist for 2011 J. Warren Nystrom Award. AAG  
• Faculty Excellence Award. Kent State University  
• Jacques May Thesis Prize. Health and Medical Geography Specialty Group (HMGSG), AAG  
• Teaching Scholars for Early Career Faculty Learning Community. Kent State University.
- 2009 • Travel Award. HMGSG, AAG
- 2008 • Travel Award. College of Liberal Arts, University of Minnesota (UMN).  
• Cartography and Geographic Information Society, Best Student Paper Award  
• First place presentation award for the University Consortium for Geographic Information Science (UCGIS) Summer Assembly, UMN  
• 2<sup>nd</sup> Place Student Paper Award, Graduate Student Affinity Group, AAG  
• Travel Award, International Geographic Information Fund, AAG  
• Graduate Research Award, International Geographic Information Fund, AAG
- 2007 • 3<sup>rd</sup> Place Best Poster Award. 130<sup>th</sup> Annual Applied Geography Conference, Indianapolis, Indiana.  
• 3<sup>rd</sup> Place Student Paper Award. Urban and Regional Information Systems Association.  
• Ralph H. Brown Prize for Best Graduate Student Publication Award, Department of Geography, UMN  
• Travel Award, Graduate and Professional Student Assembly, UMN.  
• Travel Award, International Geographic Information Fund, AAG
- 2006 • Travel Award. Office for University Women. UMN  
• Best Student Paper Award. Regional Development and Planning Specialty Group and Asian Geography Specialty Group. AAG  
• Travel Award, Graduate and Professional Student Assembly, UMN
- 2005 • Best Student Paper Award. Asian Geography Specialty Group. AAG
- 2004 • 1st Place Best Poster Award. 127th Annual Applied Geography Conference, St. Louis, Missouri.
- 2000 • National Scholarship under National Scholarship Scheme, Government of India on the result of B.Sc. Geography (Honors) Examination.

### **Grants Awarded**

- 2016 • National Institute of Health (NIH) –National Institute of Mental Health (NIMH). Institutional National Research Service Award (T32). *Training in Social Processes of AIDS*. Role: Training Faculty. (PI: Seth Kalichman, Psychology, UConn)  
Award Number: T32MH074387  
Award Period: 07/1/2016 – 6/30/2021 (**Active**)  
Award Amount: \$2,183,570
- 2014 • NIH –National Institute on Drug Abuse. PA-11-190: Mentored Research Scientist Career Development Award (K01). *Connecting People, Places, and Barriers: The effect of these connections on adherence and retention in care for HIV positive drug users*. Role: Principal Investigator.  
Award Number: K01DA037794

- Award Period: 8/1/2014 – 7/31/2019 **(Active)**  
Award Amount: \$890,892
- 2013 • University of Malaya, Malaysia. High-Impact Research Grant. Title: *Incorporating the "Seek, Test, and Treat" Model in Evaluative and Cross-Sectional Techniques with Populations at High-Risk for HIV-infection in Malaysia*. Sub Award title: *Understanding HIV Prevalence and Risk in Female and Transgender Sex Workers through Bio-behavioral Surveillance*.  
Role: Co-Investigator  
Award Period: 11/2013 – 10/2014 **(Completed)**  
Award Amount: \$40,000
- 2012 • UConn. College of Liberal Arts and Science. The Fund for Innovative Education in Health and Society.  
Role: Principal Investigator.  
Award Amount: \$50,000 **(Completed)**
- UConn. Faculty Large Grant.  
Role: Principal Investigator.  
Award Period: 12/2012 – 6/2014 **(Completed)**  
Award Amount: \$25,025
- UConn. Institute for Collaboration on Health, Intervention and Policy (InCHIP) CIRA/InCHIP Multi-Institutional Pilot Grants.  
Role: Co-Principal Investigator.  
Award Period: 1/2013 – 12/2014 **(Completed)**  
Award Amount: \$50,000
- 2011 • Travel Grant, University Teaching Council. Kent State University (KSU). - \$500.00  
• Research Grant. American Association of Geographers (AAG). - \$1000.00
- 2010 • Summer and Annual Appointment from University Research Council, KSU - \$6500.00  
• Travel Grant, University Research Council. KSU - \$500.00.  
• Summer Teaching Development Grant. KSU - \$6500.00.  
• Travel Grant, University Teaching Council. KSU - \$500.00.
- 2009 • Travel Grant, University Research Council. KSU - \$500.00
- 2008 • Graduate Student Travel Grant for UCGIS Summer Assembly - \$800.00  
• Doctoral Dissertation Fellowship (Sept 2008 - May 2009). Graduate School. University of Minnesota - \$24,000.00  
• Doctoral Dissertation research Grant. Graduate School University of Minnesota (UMN) - \$1000.00  
• Dissertation Research Grant. AAG - \$500.00  
• Travel Grant. Department of Geography. UMN - \$500.00
- 2006 • Travel Grant. Urban Geography Specialty Group, AAG - \$200.00  
• Graduate Research Partnership Program. Summer Fellowship, College of Liberal Arts, UMN - \$6000.00
- 2003 • Junior Research Fellowship, University Grants Commission, India. - \$150.00

**Invited Presentations**

- **Ghosh, D.** January 2018. Connected Technologies for “Smarter” Geographical Health Research. *Geo-Research Forum, Geography Department, University of Delhi, New Delhi, India.*
- **Ghosh, D.** January 2018. Connected Technologies for “Smarter” Geographical Health Research. Colloquium, Centre for the Study of Regional Development, Jawaharlal Nehru University, *New Delhi, India.*
- **Ghosh, D.** December 2016. Geographic Information System and Social Media Data. *Presidency University, West Bengal, India.*
- **Ghosh, D.** December 2016. Introduction to Geographic Information System. *Guest Lecturer for Winter School on Geospatial Technologies. Chitkara University, Himachal Pradesh, India.*
- **Ghosh, D.** December 2016. Geographic Information System and Publicly Accessible Data. *Guest Lecturer for Winter School on Geospatial Technologies. Chitkara University, Himachal Pradesh, India.*
- **Ghosh, D.** November 2016. Beyond the Ivory Tower: Integrating Research and Teaching using Community Based Participatory Research. *Forum Speaker at the department of Geography and Environment, San Francisco State University, California.*
- **Ghosh, D.** October 2015. Overview of Geography and Health. Guest Lecture for HDFS 5002: *Designing and evaluating health and wellness interventions. Human Development and Family Studies, UConn.*
- **Ghosh, D.** August 2015. A conceptual framework for integrating social networks and activity space of HIV-positive opioid users. *YCCR Research-in-Progress Seminar. Center for Interdisciplinary Research on AIDS, Yale School of Medicine.*
- **Ghosh, D.** April 2015. Geographic context and exposure estimation for understanding health behaviors: Lessons and challenges from drugs, diet, weight and physical activity in NIH-funded research. *Panel organized by NIH, NIDA, NCI at the 2015 AAG Annual Meeting, Chicago, Illinois.*
- **Ghosh, D.** February 2015. Individual and neighborhood correlates of substance use among opioid dependent urban inner-city residents. Guest Lecture for PSYCH 5710: *Seminar on Social Processes of HIV. Psychology Department, UConn.*
- **Ghosh, D.** February 2015. Risk of low nutrition due to supermarket redlining: A case study of Hartford, Connecticut. *2015 Seminar Series of Nutrition Science Department, UConn.*
- **Ghosh, D.** December 2014. Health =  $f(\text{Geography})$ . *Seminar Series, Presidency University. Kolkata, West Bengal, India.*
- **Ghosh, D.** November 2014. Do residents of Hartford, Connecticut live in a food desert? What role do local grocery stores play in urban food environments? Geography Awareness Week for Department of Geography and the Office of Sustainability. *Southern Connecticut State University.*
- **Ghosh, D.** October 2014. Obesity, Nutrition, Access to Food: Health Geographic Theories and Methods. Guest Lecture for PSYC 3885, *UConn.*
- **Ghosh, D.** and Pease, H. S. December 2013. Do You Live In A Food Desert? How Many Calories Can \$1 Get You? *Connecticut State Museum of Natural History and Connecticut Archaeology Center.*
- **Ghosh, D.** October 2013. A Big Mac or an Apple? It depends upon where you live. *CLAS College Experience, The Environment: Health, Nature & Politics. UConn- CLAS.*

- **Ghosh, D.** and Pease, H. S. April 2013. Youth PhotoVoice: Food, Community, and You. *UConn – Hartford Campus*.
- **Ghosh, D.** March 2012. New approaches to broaden interdisciplinary health research. *Institute for Collaboration on Health Intervention and Policy (InCHIP), UConn*.
- **Ghosh, D.** April 2011. Food, Food Everywhere, and Not a Healthy Bite to Eat: Identifying Food Deserts in Cleveland, Ohio. *Department of Geography and Planning, University of Akron*.
- **Ghosh, D.** December 2010. Future Trends in Geographic Information Science for Environmental Health (or making friends with community partners). *Department of Geography, UConn*.
- **Ghosh, D.** December. 2010. Future Trends in Geographic Information Science for Environmental Health. *Department of Geography, University of Wisconsin-Milwaukee*.
- **Ghosh, D.** October 2010. Using Geographic Information Science in Health Research: Examples from Vector-borne Disease, Obesity/Cardiovascular Disease and Health Care Resources. Research Rounds. *Department of Behavioral and Community Sciences, Northeastern Ohio Universities Colleges of Medicine and Pharmacy. Ohio*.
- **Ghosh, D.** May 2010. HIV/AIDS in India: Knowledge and access to care and treatment. Colloquium Series, *Department of Geography, Kent State University (KSU). Ohio*.
- **Ghosh, D.** November 2009. Medical Geography. *Cardinal High School. Geauga County, Ohio*.
- **Ghosh, D.** February 2009. Graduate School Seminar. *University of Minnesota (UMN)*.
- **Ghosh, D.** January 2009. A Geospatial Investigation of West Nile virus in Twin Cities, Minnesota. *Department of Geography, KSU. Kent, Ohio*.
- **Ghosh, D.** December 2008. Spatiotemporal analysis of West Nile Virus in Twin Cities Metropolitan area of Minnesota. *Minnesota Population Center Seminar Series. UMN*.
- **Ghosh, D.** July 2008. Guest Lecturer in GEOG 1403 Biogeography of the Global Garden. *Department of Geography, UMN*.

### Conference Presentations

- **Ghosh, D.** and Altice, FL. July 2017. Understanding 'habitus' of drug users with HIV infection: The interplay of activity spaces, social networks, and health. *2017 17<sup>th</sup> International Medical Geography Symposium. Angers, France*.
- **Ghosh, D.** and Altice, FL. June 2017. Mobility, Social Networks, and Self-Reported Health of Older People Living with HIV/AIDS in Washington, DC. *2017 International Network for Social Network Analysis. Beijing, China*
- **Ghosh, D.** and Altice, FL. April 2017. Associations of Aspatial Social Network and Spatiosocial Network Metrics with Substance Use and HIV/AIDS Treatment Outcomes. *2017 Annual AAG Meeting. Boston, Massachusetts*.
- Vorotyntseva, Natalia. and **Ghosh, D.** April 2017. Bringing Ego Networks into Geospatial Environment. *2017 Annual AAG Meeting. Boston, Massachusetts*.
- **Ghosh, D.** and Altice, FL. July 2016. Mapping 'habitus' and HIV infection of drug users: the collision of physical spaces of everyday life, risk networks and health. *2016 International AIDS Society Conference. Durban, South Africa*.
- **Ghosh, D.** March 2016. What are English speaking health geographers talking about? Research frontiers, synergies, and collaboration networks. *Annual AAG Meeting. San Francisco, California*.
- **Ghosh, D.** and Altice, FL. July 2015. Integrating geographic space and social network of HIV-

- positive drug users. *2015 International Medical Geography Conference. Vancouver, British Columbia, Canada.*
- **Ghosh, D.** and Altice, FL. April 2015. Spatializing Egocentric Social Networks: Does Geography Matter in Social Networks? *Annual AAG Meeting. Chicago, Illinois.*
  - **Ghosh, D.**, Denton, C., Brown, S., and Altice, FL. November 2014. Individual and neighborhood level correlates of substance abuse and treatment among opioid dependent urban inner-city residents. *2014 Annual American Public Health Association. New Orleans, Louisiana.*
  - **Ghosh, D.** and Pease, HS. October 2014. Picture my (un)healthy community: A youth photovoice project at three geographic scales. *Fourth International Conference on Food Studies. Monash University, Prato, Italy.*
  - Denton, C., **Ghosh, D.**, Wooditch, A., Mbaba, M., Kiss, M. Lawson, W., Taxman, F., and Altice, FL. October 2014. Geographic Accessibility to Addiction, Mental Health, and HIV/AIDS Care Services for Opioid Users. *2014 Addiction Health Service Research. Boston, Massachusetts.*
  - **Ghosh, D.** and Pease, H.S. April 2014. Picture my (un)healthy community: A preliminary analysis of a youth photovoice project. *Annual AAG Meeting. Tampa, Florida.*
  - Li, J., Moorthi, G, Valente, T, Shin, H. **Ghosh, D.**, and Obidoo, C. February 2014. RDS peer recruitment decision-making, street recruitment dynamics, and opportunities for statisticians. *International Social Network Analysis Conference. St. Petersburg, Florida, USA.*
  - **Ghosh, D.**, Gibson, B., Morano, J., and Altice, FL. November 2013. Mapping health care access and utilization for vulnerable populations at a mobile medical clinic. *Annual AAG Meeting. Boston, Massachusetts.*
  - **Ghosh, D.**, Martin, K., and Page, M. July 2013. Do residents of Hartford, Connecticut live in a food desert? A multidimensional analysis of grocery stores. *International Medical Geography Symposium. Michigan State University, East Lansing, Michigan.*
  - **Ghosh, D.** and Altice, FL. May 2013. The relationship between social and spatial networks and their effect on clinical outcomes. *International Social Network Analysis Conference. Hamburg, Germany.*
  - **Ghosh, D.** April 2013. Disparity in obesity: A tale of two cities in urban Ohio. *Annual AAG Meeting. Los Angeles, California.*
  - **Ghosh, D.** and Guha, R. October 2012. What are we 'tweeting' about obesity? An exploration of Topic Modeling and Spatial Analysis. *35<sup>th</sup> Applied Geography Conference. Minneapolis, Minnesota.*
  - **Ghosh, D.** June 2012. "Does it matter where we tweet from? Spatializing Social Media". *UCGIS 2012 Symposium: Building GIS Science 2.0. Washington, DC.*
  - **Ghosh, D.** and Guha, R. March 2012. "Is Pizza a Vegetable?" – Assessing attitudes towards Congress' new bill using sentiment and social network analysis. *International Social Network Analysis Conference. Redondo Beach, CA.*
  - **Ghosh, D.** and Guha, R. February 2012. Exploring the spatiotemporal trends of obesity-related "tweets" using topic modeling and Geographic Information Science. *Annual AAG Meeting. New York City, New York.*
  - **Ghosh, D.**, Sanders, H. A., Riper, DV., and Manson, SM. November 2011. How do you measure distance in spatial models? An example using open-space valuation. *58th Annual North American Meetings of the Regional Science Association International 2011 // Second Conference of the Regional Science Association of the Americas. Miami, Florida.*



- **Ghosh, D.** April 2011. Delineating West Nile virus transmission cycles: Nearest Neighbor Distance Time (NNDT) model. *Annual AAG Meeting. Seattle, Washington.*
- **Ghosh, D.** October 2010. Developing an Interdisciplinary Course: Application of Geographic Information Science in Health Research. *17<sup>th</sup> Annual Conference: Celebrating College Teaching. Kent State University.*
- Barbara, D.L, **Ghosh, D.**, Hamera, E., and Sterns, A. October 2010. A Geospatial Analysis of Psychiatric Mental Health Advanced Practice Nurses in the United States. *American Psychiatric Nurses Associations 24<sup>th</sup> Annual Conference. Louisville, Kentucky.*
- **Ghosh, D.** October 2010. Where do we need Psychiatric Mental Health Nurses? *2010 ESRI Health GIS Conference. Denver, Colorado.*
- **Ghosh, D.**, and Guha, R. April 2010. Identifying optimal risk factors for prediction and interpretation of West Nile virus occurrences using Neural Network. *Annual AAG Meeting. Washington DC.*
- **Ghosh, D.**, and Guha, R. March 2010. A Risk factor analysis of West Nile virus: Extraction of relationships from a neural-network model. *2010 International Conference on Social Computing, Behavioral Modeling, and Prediction. National Institute of Health, Bethesda, Maryland.*
- **Ghosh, D.** October 2009. When does West Nile virus transmission cycle peak at a local level? Evidences and related vector control strategies from Twin Cities Metropolitan Area of Minnesota. *132<sup>nd</sup> Applied Geography Conference, Baton Rouge, Louisiana.*
- **Ghosh, D.** July. 2009. Predicting and explaining the spread of West Nile virus in the Twin Cities Metropolitan Area of Minnesota. *International Symposium in Medical Geography, Hamilton, Ontario, Canada.*
- **Ghosh, D.**, and Manson, S. M. April. 2009. Association of West Nile Virus incidences and urban morphology in the Twin Cities Metropolitan Area of Minnesota. *Annual AAG Meeting. Las Vegas, Nevada.*
- **Ghosh, D.** October 2008. Spatiotemporal approaches to map West Nile Virus high-risk exposure areas at local scales using Geographic Information Science technologies. *American Public Health Association 136<sup>th</sup> Annual Meeting and Exposition. San Diego, California.*
- **Ghosh, D.** June 2008. Spatiotemporal models to delineate West Nile Virus transmission cycles at various scales. *University Consortium for Geographic Information Science Summer Assembly, Minneapolis, Minnesota.*
- **Ghosh, D.**, Manson, S. M., and McMaster, R.B. April 2008. Novel approaches to delineate West Nile virus transmission cycles on a micro-scale using Geographic Information Science technologies. *Annual AAG Meeting. Boston, Massachusetts.*
- **Ghosh, D.**, and Manson, S. M. October 2007. Traditional Vs Modern Clustering Techniques: A case study of West Nile Virus Incidence in Minnesota. *130<sup>th</sup> Annual Applied Geography Conference, Indianapolis, Indiana.*
- **Ghosh, D.**, and Manson, S. M. April 2007. Robust Principal Component Analysis and Geographically Weighted Regression: Urbanization in the Twin Cities Metropolitan Area of Minnesota. *Annual AAG Meeting. San Francisco, California.*
- **Ghosh, D.** October 2006. What is the Quality of Knowledge of HIV/AIDS among Indian Women? An Empirical Analysis. *129<sup>th</sup> Applied Geography Conference, Tampa, Florida.*
- **Ghosh, D.** March 2006. Predicting Vulnerability of Indian Women to Domestic Violence Incident. *Annual AAG Meeting. Chicago, Illinois.*

- **Ghosh, D.** November 2005. Application of Principal Component Analysis and GIS to delineate health care resource regions of Kansas. *128<sup>th</sup> Annual Applied Geography Conference, Washington, DC.*
- **Ghosh, D.** April 2005. Effect of Exposure to Mass Media on Knowledge and Use of Antenatal Care Services: A Comparative Analysis of Himachal Pradesh, Uttar Pradesh, Andhra Pradesh and Karnataka. *Annual AAG Meeting. Denver, Colorado.*
- **Ghosh, D.** March 2005. Analysis of Spatial Inequalities of Health Care Resources in Kansas. *2<sup>nd</sup> Annual Graduate Student Research Summit, Topeka, Kansas.*
- **Ghosh, D.** October 2004. How the Electronic Mass Media Affects Knowledge and Awareness of HIV/AIDS in Indian Women – A Multivariate Logistic Regression Analysis. *127<sup>th</sup> Annual Applied Geography Conference, St. Louis, Missouri.*

### Teaching Experience

- University of Connecticut (2011 – Present)**
- Undergraduate Teaching**
- **Globalization:** Spring 2017 (124 students), Fall 2014 (122 students), Spring 2014 (122 students), Fall 2013 (121 students), Spring 2013 (124 students), Fall 2012 (119 students), Spring 2012 (123 students), Fall 2011 (125 students)
- Undergraduate and Graduate Teaching (Combined)**
- **Medical and Health Care Geography:** Spring 2018 (24 students), Spring 2016 (23 students), Spring 2014 (14 students), Spring 2013 (9 students), Spring 2012 (11 students)
- Graduate Teaching**
- **Teaching Practicum:** Fall 2014
  - **Internship in Geography:** Spring 2013
  - **GIS Applications in Health Research:** Fall 2012
- Kent State University (2009 – 2011)**
- Undergraduate and Graduate Teaching (Combined)**
- **Medical Geography:** Spring 2011, Spring 2010
  - **Geographic Applications in Health Research:** Fall 2010
  - **Advanced Geographic Information Science:** Fall 2010, Fall 2009

### Graduate Advising

- University of Connecticut (2011 – Present)**
- Primary Advisor**
- **Diane BenBella, PhD Student** (Fall 2016 - Present)
  - **Mengyao Zhang, PhD Candidate (Fall 2012 – Spring, 2017, Graduated)**  
Dissertation Title: 'A Geographical Analysis of Food Access in the Greater Hartford Area of Connecticut'
  - **Allison Bradshaw, MA (Fall 2011 – Summer 2013, Graduated)**  
Dissertation Title: 'A spatial analysis of West Nile Virus in Texas, 2012'  
Placement: Associate VP, Volunteers, Education and Trainings at Operation Smile, VA

- Member, Advisory Committee**
- **Michael Howser**, PhD Student, Geography, PhD Student, Oral Exam Passed
  - **Adelina, Mkami**, PhD Student, Geography, PhD Student, Oral Exam Passed
  - **Jessica Maksut**, PhD Student, Human Development and Family Studies
  - **Xiaojiang Li**, PhD Student, Geography (**Graduated**)

***Kent State University (2009 – 2011)***

- Member, Advisory Committee**
- **Michael Allen, MA**, Graduated in 2011
  - **Saad Algharib, PhD**, Graduated in 2011

**Undergraduate Advising**

***University of Connecticut (2011 – Present)***

- Primary Advisor**
- **Avani Duggaraju, Individualized Major Program**  
Major Title: Global Health and Disease  
**Graduation Date: Spring 2014**  
Placement: MPH Bloomberg School of Public Health, Johns Hopkins University
- Member, Advisory Committee**
- **Benjamin White, University Scholar Program (Graduated)**  
Major Title: Psychology  
Placement: MA in Psychology, University of Illinois, Urbana-Champaign
  - **Abigail Raynor, Individualized Major Program (Graduated)**  
Major Title: Global Health
  - **Rachel Sancora, Individualized Major Program (Spring 2016 – Present)**  
Major Title: Global Health
  - **Emily Wainfan, Individualized Major Program (Spring 2017 – Present)**  
Major Title: Global Studies
  - **Samantha Cummins, Individualized Major Program**  
Major Title: 'Global Health and Social Issues'  
**Graduation Date: Spring 2014**  
Placement: Medical School, Vanderbilt University

**Academic and Professional Service**

- Department of Geography, UConn**
- **Graduate Committee, Member (Fall 2011 – Present)**  
Activities include a) review of applications for new graduate students, b) funding decisions for both new and existing students, c) review of applications for departmental summer funding, d) review of applications for College of Arts and Sciences funding (summer fellowships), e) review of annual reports
  - **Elected Member of Search Committee, Head of the Department Position (Fall 2012 – Fall 2013)**

- **Assistance to Search Committee:** Faculty-in-Residence position (Spring 2012); Tenure-Track Assistant Professor position (Spring 2013)
  - **Professional development** topic discussions: 'Publishing in peer-reviewed journals' (Spring 2015), 'Research Frontiers in Human Geography' (Fall 2014) to a new cohort of graduate students in the GEOG 5010: Geography Pro-Seminar class
- UConn**
- **Co-Chair of Content Area 2 (Social Science) of General Education Oversight Committee (GEOC)** (Fall 2017 – Present)
  - **Executive Committee of Institute for Collaboration on Health Intervention and Policy (InCHIP)** (Fall 2014 – Present)
  - **Co-Director** of the 'mHealth/eHealth' Research Interest Group at InCHIP (Summer 2016 – Present)
  - **SEED Grant Review Committee of InCHIP:** Junior Faculty (Spring 2014), Graduate Students (Spring 2015)
- Academic Communities**
- **Elected Board Member** of the Spatial Analysis of Modeling (SAM) **Specialty Group of AAG** (2015 – 2018)
  - **Leadership** role and direct involvement in the governance of Health and Medical Geography Special Group (HMGSG) of AAG (Served as a student member, at-large board member (2010-2011), Vice-Chair (2011-2012), Chair (2012-2-13), and currently ex-officio member)
  - **Reviewed grant proposals** submitted to National Science Foundation (NSF): Faculty Early-Career Development (CAREER) proposal (Fall 2015), Geography and Spatial Science (Fall 2012)
  - **Review of journal articles:**  
AIDs and Behavior (4),  
Appetite,  
Cartography and Geographic Information Science,  
Computers, Environment and Urban Systems (2),  
Conference Proceedings of Applied Geography Conference,  
Geographical Analysis (2),  
Geography Journal,  
Geographical Review,  
Geographical Systems,  
International Geographic Information Science (5),  
International Journal of Applied Geospatial Research,  
International Journal of Health Geographics (2),  
Journal of Applied Geography,  
Journal of Arab Geography,  
Journal of Geographical Systems,  
Journal of Health and Place (4),  
Journal of Landscape and Urban Planning,  
Papers in Applied Geography,

Public Health Nutrition,  
PLOS One (2),  
Remote Sensing (3),  
Spatial and Spatiotemporal Epidemiology,  
Social Science and Medicine (4),  
Transaction in GIS (2),  
Urban Geography,

- **AAG Organizing Committee Member** for the symposium titled, 'International Geography, GIScience, and Urban Health Theme' held at 2016 AAG in San Francisco (Spring 2016)
- **Organized paper sessions at the AAG:**  
Symposium on Human Dynamics in Smart and Connected Communities: Spatial-Social Networks in GIS (2017),  
Mobility, Health, and the City (2016),  
Mobile Computing, Activity Space, and Social Networks: Health Applications from NIH-funded projects (2015),  
Spatial Epidemiology (2014, 2013, 2012, 2011),  
Perspectives on Geographic Complexity (2010),  
Disease and Health Modeling (2010)
- **Specialty Group Activities at the AAG:** Review of dissertations for Jacque May Dissertation Award Health and Medical Geography Specialty Group (HMGSG): 2017
- **Organized paper session at the International Medical Geography Symposium (IMGS):** 2015
- **Affiliate member of Center for Interdisciplinary Research on AIDS (CIRA)** (Fall 2013 – Present), Yale University, School of Medicine, New Haven, Connecticut
- **Outreach**
  - **Graduate Internship** opportunities with the Travelers Insurance Company and the Department of Geography at UConn
  - **Op-Ed in the Hartford Courant**, titled, 'Big Grocery Vital in North Of Downtown Hartford'. See the link here [http://articles.courant.com/2014-06-28/news/hc-op-ghosh-north-hartford-food-desert-needs-super-20140628\\_1\\_downtown-hartford-supermarket-fast-food-restaurants](http://articles.courant.com/2014-06-28/news/hc-op-ghosh-north-hartford-food-desert-needs-super-20140628_1_downtown-hartford-supermarket-fast-food-restaurants)
- **Geography, Kent State University**
  - Served as a member of the Geography Chair Search Committee (Fall 2009)
  - Coordinator for GIS Minor (Fall 2009- Fall 2010)
  - Member of the Faculty Advisory Committee (2010-2011)

**Professional Membership**

- Association of American Geographers
- Specialty Groups: Applied Geography, Asian Geography, Geographic Information Science and System, Medical Geography, Population, and Spatial Analysis and Modeling.
- American Public Health Association
- International Social Network Analysis