

KEVIN MICHAEL CURTIN
Professor – Department of Geography
Director – Laboratory for Location Science
College of Arts & Sciences
The University of Alabama

CONTACT INFORMATION:

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- Address – 2019D Shelby Hall, Box 870322, The University of Alabama, Tuscaloosa, AL 35401
- Citizenship – USA

AREAS OF SPECIALIZATION:

- University Administration including:
 - Enrollment Management
 - Recruitment and Growth
 - Curriculum and Program Development
 - Teaching Load Management
 - Faculty Development
 - Online Education
 - Institutional Assessment
 - Undergraduate Research
 - STEM Teaching and Research
- Primary research areas:
 - Geographic Information Science
 - Facilities Location Science
 - Transportation, Logistics, and Network GIS
 - Urban and Environmental Resource Allocation
 - Area Specializations – Colombia, Kenya, Greater Mekong Region, Sardinia
- Extensive teaching experience at both the undergraduate and graduate university levels

EDUCATION:

- University of California, Santa Barbara, CA
 - Ph.D., Geography / Geographic Information Science (2002)
 - Certificate in College and University Teaching (2002)
- University of Illinois, Chicago, IL
 - M.A., Environmental Studies and Urban Geography (1995)
 - B.A., Environmental Studies and Urban Geography (1994)

POSITIONS HELD:

- Professor, University of Alabama, 2017 - Present
- Associate Dean for Academic Affairs, College of Science, George Mason University, 2013 - 2017
- Acting Chair Department of Computational and Data Science, 2015 - 2017
- Acting Director Forensic Science Program, 2014 - 2015
- Associate Professor, George Mason University, 2007- 2017
- Assistant Professor, University of Texas at Dallas, 2002 - 2007
- Graduate Researcher, National Center for Geographic Information & Analysis (NCGIA), 1996-2002
- Research/Scientific Assistant, Chicago Area Geographic Information Study (CAGIS), 1993-1996

BOOKS:

- Holmes, J.S., S.A.G. Piñeres, and K.M. Curtin (2008) “Guns, Drugs, and Development in Colombia”, University of Texas Press.

PEER REVIEWED JOURNAL ARTICLES:

Graduate student co-authors denoted by *

- Mitchell, P., S. Samsel, K.M. Curtin, A.N. Price, D.F. Turner, R. Tramp, M. Hudnall, J. Parton, D. Lewis (2022) “Geographic disparities in access to Medication for Opioid Use Disorder across US census tracts based on treatment utilization behavior”, *Social Science & Medicine*, Vol. 302. <https://doi.org/10.1016/j.socscimed.2022.114992>
- Price, A.N.*, K.M. Curtin, N.R. Magliocca, D.F. Turner*, P. Mitchell*, K. McSweeney, D.L. Summers, (2022) “A Family of Models in Support of Realistic Drug Interdiction Location Decision Making”, *Transactions in GIS*. 1-19. <https://doi.org/10.1111/tgis.12921>
- Mei, X.*, K.M. Curtin, D.F. Turner*, N.M. Waters, M. Rice (2022) “Approximating the Length of Vehicle Routing Problem Solutions Using Complementary Spatial Information”, *Geographical Analysis*, <https://doi.org/10.1111/gean.12322>
- Magliocca, N.R., D.S. Summers, K.M. Curtin, K. McSweeney, A.N. Price* (2022) “Shifting landscape suitability for cocaine trafficking through Central America in response to counterdrug interdiction”, *Landscape and Urban Planning*. 221, p. 104359. <https://doi.org/10.1016/j.landurbplan.2022.104359>
- Magliocca, N.R., A. Torres, J.D. Margulies, K. McSweeney, I. Arroyo-Quiroz, N.H. Carter, K.M. Curtin, T.S. Easter, M.L. Gore, A. Hubschle, F. Masse, A. Rege, B. Tellman (2021) “Comparative Analysis of Illicit Supply Network Structure and Operations: Cocaine, Wildlife, and Sand”, *Journal of Illicit Economies and Development*. 3(1) 50-73. <https://doi.org/10.31389/jied.76>
- Pawloski, L.R., J.B. Moore, P. Treffinger, H. Baghi, K. Gaffney, S. Jaimovich, C. Campos, K.M. Curtin (2021) “Self-Care Instruments to Measure Nutrition Practices in Children and Parents: Psychometric Analysis”, *Nutrients*. 13(2242), 1-12. <https://doi.org/10.3390/nu13072242>.
- Heyns, A., du Plessis, W., Curtin, K.M., Kosch, M., Hough, G. (2021) “Analysis and exploitation of landforms for improved optimisation of camera-based wildfire detection systems”, *Fire Technology*. <https://doi.org/10.1007/s10694-021-01120-2>
- Aguirre, A.A., M.L. Gore, M. Kammer-Kerwick, K.M. Curtin, A. Heyns, W. Preiser, L.I. Shelley (2021) “Opportunities for Transdisciplinary Science to Mitigate Biosecurity Risks from the Intersectionality of Illegal Wildlife Trade with Emerging Zoonotic Pathogens”, *Frontiers in Ecology and Evolution*, 9. <https://doi.org/10.3389/fevo.2021.604929>.
- Heyns, A., W. du Plessis, K.M. Curtin, M. Kosch, and G. Hough (2020) “Decision support for the selection of optimal tower site locations for early warning wildfire detection systems in South Africa”, *International Transactions in Operational Research*. <https://doi.org/10.1111/itor.12928>.
- Curtin, K.M., L.R. Pawloski, P. Mitchell*, and J. Dunbar* (2020) “COVID-19 and morbid obesity: Associations and consequences for policy and practice”, *World Medical and Health Policy*, 12(4), 512-532, <https://doi.org/10.1002/wmh3.361>.
- Resig, M.*, R. Woodaman and K.M. Curtin (2020) “Operational-Level Autonomous Logistics: A Multi-objective Model Formulation and Solution Procedure”, *Military Operations Research*, 25(3), 23-42.
- Xia, J., K.M. Curtin, J. Huang, D. Wu, W. Xiu, and Z. Huang (2019) “A carpool matching model with both social and route networks”, *Computers, Environment and Urban Systems*, 75(63) 90-102, <https://doi.org/10.1016/j.compenvurbsys.2019.01.008>.
- Rice, M.T., D. Jacobson, D. Pfoser, K.M. Curtin, H. Qin, K. Coll, R. Rice, F. Paez, and A.O. Aburizaiza (2018) “Quality Assessment and Accessibility Mapping in an Image-Based Geocrowdsourcing Testbed”, *Cartographica*. 53(1), 1-14, <https://doi.org/10.3138/cart.53.1.2017-0013>.
- Qin, H.*, K.M. Curtin, M. Rice (2017) “Pedestrian network repair with spatial optimization models and geocrowdsourced data”, *GeoJournal*. 83, 345-364, <https://doi.org/10.1007/s10708-017-9775-x>.
- Fleming, L.*, R. Ansumana, A. Bockarie, J. Alejandro, K. Owen, U. Bangura, D.H. Jimmy, K.M. Curtin, D. Stenger, and K.H. Jacobsen (2016) “Health-care availability, preference, and distance for women in urban Bo, Sierra Leone”, *International Journal of Public Health*. 6, 1079-1088, <https://doi.org/10.1007/s00038-016-0815-y>.
- Xia, J.*, K.M. Curtin, W. Li, and Y. Zhou (2015) “A New Model for a Carpool Matching Service”, *PLOS ONE*. 10(6), <https://doi.org/10.1371/journal.pone.0129257>.
- Qin, H.*, M. Rice*, S. Fuhrmann, M. T. Rice, K.M. Curtin, E. Ong* (2015) “Geocrowdsourcing and Accessibility for Dynamic Environments”, *GeoJournal*, <https://doi.org/10.1007/s10708-015-9659-x>.

- Sharma, K., R.S. Mahabir*, K.M. Curtin, J.M. Sutherland, J.B. Agard, and D.D. Chadee (2014) "Exploratory Space-Time Analysis of Dengue Incidence in Trinidad: A Retrospective Study using travel hubs as dispersal points, 1998-2004", *Parasites and Vectors* 7:341, <https://doi.org/10.1186/1756-3305-7-341>.
- Curtin, K.M., and L.R. Pawloski (2014) "Methodological Prospects with the use of Geographic Information Systems and Spatial Statistics for the Evaluation of Alcohol Policy", *World Medical and Health Policy* 6 (3), 242-261, <https://doi.org/10.1002/wmh3.102>.
- Curtin, K.M., G. Voicu*, M. Rice, and A. Stefanidis (2014) "A Comparative Analysis of Traveling Salesman Solutions from Geographic Information Systems", *Transactions in GIS* 18 (2), 286-301, <https://doi.org/10.1111/tgis.12045>.
- Rice, M.T., R.D. Jacobson, D.R. Caldwell, S.D. McDermott, F.I. Paez*, A. Aburizaiza*, K.M. Curtin, A. Stefanidis, and H. Qin* (2013) "Crowdsourcing Techniques for Augmenting Traditional Accessibility Maps with Transitory Obstacle Information" *Cartography and Geographic Information Systems* 40 (3), 210-219, <https://doi.org/10.1080/15230406.2013.799737>.
- Eckley, D.C.* and K.M. Curtin (2013) "Evaluating the spatiotemporal clustering of traffic incidents", *Computers, Environment, and Urban Systems* 37 (1), 70-81, <http://doi.org/10.1016/j.compenvurbsys.2012.06.004>.
- Pawloski, L.R., K.M. Curtin, C. Gewa, and D. Attaway* (2012) "Maternal-child overweight/obesity and undernutrition in Kenya: a geographic analysis", *Public Health Nutrition*, 15 (11), 2140-2147, <http://doi.org/10.1017/S1368980012000110>.
- Ruchiwit, M., K. Ruchiwit, L.R. Pawloski, and K.M. Curtin (2012) "The influence of the perceptions of environmental factors on self-reported health status among Thais", *World Medical and Health Policy*, 4 (3-4), 35-46, <https://doi.org/10.1002/wmh3.3>.
- Manca, G. and K.M. Curtin (2012) "Fuzzy Analysis for Modeling Regional Delineation and Development: The Case of the Sardinian Mining Geopark", *Transactions in GIS*, 16 (1), 55-79, <https://doi.org/10.1111/j.1467-9671.2011.01300.x>.
- Pawloski, L.R., S. Thurman*, K.M. Curtin, and M. Ruchiwit (2012) "The Spread of Obesity in Developing and Transitional Countries: A Focus on the Mekong Region, Southeast Asia", *World Medical & Health Policy*, 4(1), <https://doi.org/10.1515/1948-4682.1198>.
- Curtin, K. M. and S. Biba* (2011) "The Transit Route Arc-Node Service Maximization Problem", *European Journal of Operational Research* 208 (1), 46-56, <https://doi.org/10.1016/j.ejor.2010.07.026>.
- Hill, R.* and K.M. Curtin (2011) "Solar Powered Light Emitting Diode Distribution in Developing Countries: An Assessment of Potential Distribution Sites in Rural Cambodia Using Network Analyses" *Socio-Economic Planning Sciences*, 45, 48-57, <https://doi.org/10.1016/j.seps.2010.08.001>.
- Biba, S.*, K.M. Curtin, and G. Manca (2010) "A new method for determining the population with walking access to transit", *International Journal of Geographical Information Science*, 24 (3), 347-364, <https://doi.org/10.1080/13658810802646679>.
- Curtin, K.M., K. Hayslett-McCall, and F. Qiu (2010) "Determining Optimal Police Patrol Areas with Maximal Covering and Backup Covering Location Models" *Networks and Spatial Economics*, 10 (1), 145-165, <https://doi.org/10.1007/s11067-007-9035-6>.
- Curtin, K.M., R. R. Arifin*, and G. Nicoara* (2007) "A Comprehensive Process for Linear Referencing" *URISA Journal* 19 (2), 41-50.
- Curtin, K.M. and R.L. Church (2007) "Optimal Dispersion and Central Places" *Journal of Geographical Systems* 9 (2), 167-187. <https://doi.org/10.1007/s10109-007-0042-4>
- Holmes, J.S., S. A.G. Piñeres, and K.M. Curtin (2007) "A Subnational Study of Insurgency: FARC Violence in the 1990s", *Studies in Conflict and Terrorism*, 30 (3), 249-265. <https://doi.org/10.1080/10576100601148456>
- Curtin, K.M. (2007) "Network analysis in geographic information science: Review, assessment, and projections" *Cartography and Geographic Information Systems*, 34(2), 103-111. <https://doi.org/10.1559/152304007781002163>
- Curtin, K.M. and R.L. Church (2006) "A Family of Multiple-Type Discrete Dispersion Models", *Geographical Analysis* 38 (3) 248-270. <https://doi.org/10.1111/J.1538-4632.2006.00685.X>

- Holmes, J.S., S.A.G. Piñeres, and K.M. Curtin (2006) “Drugs, Violence and Development in Colombia: A Department Level Analysis” Latin American Politics and Society, 48 (3), 157-184. <https://doi.org/10.1111/j.1548-2456.2006.tb00359.x>

PEER REVIEWED ARTICLES IN EDITED VOLUMES:

- Curtin, K.M. and D.F. Turner (2019) “Linear Referencing”, in GIS&T Body of Knowledge, J. Wilson, ed. University Consortium for Geographic Information Science. DOI: 10.22224/gistbok/2019.4.3.
- Curtin, K.M. and D.F. Turner (2019) “Linear Programming and GIS”, in GIS&T Body of Knowledge, J. Wilson, ed. University Consortium for Geographic Information Science. DOI: 10.22224/gistbok/2019.4.1.
- Curtin, K.M. (2018) “Network Analysis”, in Comprehensive Geographic Information Systems, B. Huang, T. Cova, and M-H. Tsou, eds. 153-161, Elsevier.
- Curtin, K.M. (2017) “Network Analysis”, in The International Encyclopedia of Geography People, the Earth, Environment, and Technology, N. Castree, M.F. Goodchild, A. Kobayashi, W. Liu, D. Marston, and D. Richardson eds. Wiley.
- Rosner, T. and K.M. Curtin (2015) “Quantifying Urban Diversity: Multiple Spatial Measures of Physical, Social, and Economic Characteristics” in Computational Approaches for Urban Environments, M. Helbich, J.J. Arsanjani, M. Leitner eds., 149-181.
- Biba, S., K.M. Curtin, and G. Manca (2014) “Who can access transit? Reviewing methods for determining population access to bus transit”, Cityscape: A Journal of Policy Development and Research, 16(2), 215-226.
- Ahmad, H., T.K. Rasheed, L.R. Pawloski, and K.M. Curtin (2012) “Challenges in Conflict Data Collection: Assessing the Spatial Characteristics of Nutritional Status in Erbil, Kurdistan, Iraq” Global Studies Review, 8(2), Summer 2012.
- Holmes, J.S., S. A.G. Piñeres, and K.M. Curtin (2011) “A Subnational Study of Insurgency: FARC Violence in the 1990s” Terrorism Studies: A Reader, J. Horgan and K. Braddock, eds. 206-221.
- Curtin, K. M. (2010) “GIS in Utilities” The Encyclopedia of Geography, B. Warf ed., Sage Publications.
- Hayslett-McCall, K., F. Qiu, K.M. Curtin, B. Chastain*, J. Schubert*, and V. Carter* (2008) “The Simulation of the Journey to Residential Burglary” Artificial Crime Analysis Systems: Using Computer Simulations and Geographic Information Systems, L. Liu and J. Eck, eds. 281-299.
- Curtin, K.M. (2008) “Network Data Structures” The Encyclopedia of Geographic Information Science, 314-317. K. Kemp ed. Sage Publications.
- Curtin, K.M. (2008) “Linear Referencing” The Encyclopedia of Geographic Information Science, 261-264. K. Kemp ed. Sage Publications.
- Curtin, K.M. (2008) “Network Analysis” The Encyclopedia of Geographic Information Science, 310-313. Karen Kemp (ed) Sage Publications.
- Curtin, K.M. (2007) “Network Modeling” The Encyclopedia of Geoinformatics, Hassan Karimi (ed), Idea Group Reference.
- Curtin, K.M. (2007) “Routing” The Encyclopedia of Geoinformatics Hassan Karimi (ed) Idea Group Reference.
- Curtin, K.M., F. Qiu, K. Hayslett-McCall, and T.M. Bray (2005) “Integrating GIS and Maximal Covering Models to Determine Optimal Police Patrol Areas” in Geographic Information Systems and Crime Analysis, Fahui Wang ed., Idea Group Publishing.
- Curtin, K.M. (2005) “Network Analysis”, in Data Analysis: Geographic Information Science and Technology Body of Knowledge, University Consortium for Geographic Information Science
- Curtin, K. M. (2005) “Distance”, Encyclopedia of World Geography, Robert W. McColl ed., Facts on File, Inc.
- Curtin, K. M. (2005) “Direction”, Encyclopedia of World Geography, Robert W. McColl ed., Facts on File, Inc.
- Curtin, K. M. (2005) “Elevation”, Encyclopedia of World Geography, Robert W. McColl ed., Facts on File, Inc.
- Curtin, K. M. (2005) “Italy”, Encyclopedia of World Geography, Robert W. McColl ed., Facts on File, Inc.

- Curtin, K. M. (2005) “Operations Research”, Encyclopedia of Social Measurement. 925-931. Kimberly Kempf-Leonard ed. Elsevier.
- C. Funk, K. M. Curtin, M.F. Goodchild, D. Montello, and V.T. Noronha. (1999) Formulation and test of a model of positional distortion fields. In K. Lowell and A. Jaton, editors, *Spatial Accuracy Assessment: Land Information Uncertainty in Natural Resources*. Chelsea, Michigan: Ann Arbor Press, pp. 131-138.
- R.L. Church, K.M. Curtin, P. Fohl, C. Funk, M.F. Goodchild, V.T. Noronha, and P. Kyriakidis (1998) Positional distortion in geographic data sets as a barrier to interoperation. Technical Papers, ACSM Annual Conference. Bethesda, MD: American Congress on Surveying and Mapping.
- Curtin, K.M. (1997) Designing Products for Printing. NCGIA Core Curriculum for Technical Programs, Santa Barbara, CA.
- Fohl, P., K.M. Curtin, M.F. Goodchild, and R.L. Church. (1996) A Non-Planar, Lane-Based, Navigable Data Model for ITS. Proceedings, 1996 Spatial Data Handling Conference. Delft, The Netherlands.

FULLY PEER REVIEWED CONFERENCE PAPERS

- Rice, M.T., K.M. Curtin, and M. Rice. (2020) Interaction dynamics for crowdsourced obstacle data, *Proceedings of AutoCarto 2020, the 23rd International Research Symposium on cartography and GIScience*. November, 2020.
- Heuwinkel, J. R., Rice, M. T., Yu, M., Curtin, K. M., and Jacobson, R. D. (2019) Mobility routing optimization for physical accessibility and thermoregulation, Proceedings of the International Cartographic Association, 29th International Cartographic Congress, Tokyo Japan, July 15-19, Volume 2, No.42, pp.1-5. <https://doi.org/10.5194/ica-proc-2-42-2019>.
- Pawloski L.R., C. Gewa, K.M. Curtin, D. Attaway (2011) “Maternal-child overweight and obesity in Kenya: A geographic analysis” Human Biology Association, Minneapolis, MN.
- Stefanidis, A., C. Wang, L. Xu, K.M. Curtin (2009) “Multilayer Scene Similarity Assessment” International Workshop on Spatial and Spatiotemporal Data Mining (SSTD-09) In Cooperation with IEEE International Conference on Data Mining. December, Miami, FL.
- Curtin, K.M. (2009) “Linear Referencing for Network Analysis of IED Events” Armed Forces Communications and Electronics Association (AFCEA) Symposium, May, Lansdowne, VA.
- Curtin, K.M., K. Hayslett-McCall, and F. Qiu (2007) “A Family of Models for Determining Optimal Police Deployments”, Mapping and Analysis for Public Safety – The Ninth Annual Crime Mapping Research Conference, March, Pittsburgh, PA.
- Curtin, K.M., K. Hayslett-McCall, and F. Qiu (2005) The Police Patrol Area Covering Model, 52nd Annual North American Meetings of the Regional Science Association, Las Vegas, NV, 97.
- Curtin, K.M. (2005) Linear Referencing as a Process: Moving beyond data models and objects; GISPlanet 2005; Estoril, Portugal.
- R.L. Church, K.M. Curtin, P. Fohl, C. Funk, M.F. Goodchild, V.T. Noronha, and P. Kyriakidis (1998) Positional distortion in geographic data sets as a barrier to interoperation. Technical Papers, ACSM Annual Conference. Bethesda, MD: American Congress on Surveying and Mapping, 377-387.

PUBLISHED REVIEWS:

- Curtin, K.M. (2016) “Review of: *Mathematical Techniques in GIS 2nd Ed.*; P. Dale. CRC Press” Photogrammetric Engineering and Remote Sensing, November, page 832.
- Curtin, K.M. (2010) “Review of: *Transport Geographies: Mobilities, Flows and Spaces* Edited by R. Knowles, J. Shaw, and I. Docherty. Malden, MA: Blackwell Publishing”. The Professional Geographer. 62 (2), 287-289.

GRANT AWARDS:

- Award (2021) “Graduate Student Funding: Anticipatory Strategies for Crime Response and Suppression During Extreme Events”; Alabama Transportation Institute; 08/15/2021 – 08/14/2022; \$34,920 (PI) with Co-PIs Nicholas Magliocca and Ashleigh Price.
- Award (2021) “Postdoctoral Researcher Funding – Center Development”; Alabama Transportation Institute; 08/16/2021 – 08/15/2023; \$52,821 (PI) with Co-PI Nicholas Magliocca.

- Award (2020) “D-ISBN: TRACK 1: Illicit Drug Trafficking Networks: Behavioral Responses to Interdiction”; National Science Foundation; 10/01/2020 – 09/30/2024; \$746,361 (PI) with Co-PIs Nicholas Magliocca, Diana Dolliver, Matthew Hudnall.
- Award (2019) “ALOFT Extensions, testing, and transfer to user community”; Office of Naval Research via Innovative Decisions Incorporated; 09/03/2019 – 07/01/2020; \$69,465 (PI).
- Award (2018) “Sustainable Development Goals Fellows Program”; United States Department of State; 09/29/2018 – 09/28/2021; \$1,033,086 (Co-PI) with Lisa Pawloski (PI), Matt LeFevor (Co-PI), Kim Bissell (Co-PI), Steven Jones (Co-PI); Subsequent to the award the grant was declined by the university.
- Award (2018) “EAGER: ISN: Anticipatory Interdiction in Narco-Trafficking Networks”; National Science Foundation; 09/01/2018 – 08/31/2020; \$292,974 (Co-PI) with Nicholas Magliocca (PI)
- Award (2018) “Accelerating Research Advances in Collective Spatial Cognition”; Army Research Institute; 07/03/2018 – 01/02/2020; \$296,540 (PI)
- Award (2018) “National Science Foundation Travel Grant”; National Science Foundation pass through the University of Illinois; 07/15/18; \$947 (Participating Faculty)
- Award (2016) “Operational-Level Optimization of Autonomous Logistics Enterprises”; Office of Naval Research (ONR); 05/01/2016 - 04/30/2018; \$737,609 (PI) with Alec Barker (Co-PI)
- Award (2015) “Firefighter Safety Through Advanced Research (FSTAR) Evaluation”; Federal Emergency Management Agency (FEMA), subcontract through the International Association of Fire Chiefs; 12/09/2015 - 04/22/2016; \$37,809 (PI)
- Award (2015) “Phase II – “Understanding Network Socio-Geographic Dynamics: Using smartphones to locate, track, and study goal-directed team behaviors”; Army Research Institute; 09/30/15 – 11/29/16; \$189,579 (PI) with Alec Barker (Co-PI)
- Award (2014) “FEMA/SAFER CFCA Recruitment and Retention Phase IP” Federal Emergency Management Agency (FEMA), subcontract through the International Association of Fire Chiefs; 11/01/2014 – 07/01/2016; \$97,525 (PI)
- Award (2014) “*Researchers Creating Usable Emergency Solutions (RESCUES)*” Federal Emergency Management Agency (FEMA), subcontract through the International Association of Fire Chiefs; 06/15/14 – 01/01/15; \$42,578 (PI)
- Award (2013) “*Understanding Network Socio-Geographic Dynamics: Using smartphones to locate, track, and study goal-directed team behaviors*”; Army Research Institute; 10/07/13 – 08/14/15; \$337,566 (PI) with Richard Medina (Co-PI) and Alec Barker (Program Manager)
- Award (2013) “*Phase II: Determining the Spatial Characteristics of Volunteer Firefighters for Recruitment and Retention in Virginia*”; Federal Emergency Management Agency (FEMA), subcontract through the International Association of Fire Chiefs; 02/05/2013 – 10/05/2014; \$96,774 (PI)
- Award (2013) “*Research Integration of GIS and Allied Health Sciences*”; School of Allied Health Sciences, Thammasat University; 06/15/2013 – 08/15/2013; \$1500 (PI)
- Award (2013) “*Supplement to: Connecticut Fire Chiefs Association: Analysis of Recruitment and Retention Strategies for Volunteer Firefighters*”; Federal Emergency Management Agency (FEMA), subcontract through the International Association of Fire Chiefs; 01/01/2013 – 05/31/2013; \$14,899 (PI)
- Award (2012) “Research Travel Grant for Collaboration with Thammasat University”; George Mason University Office of the Provost; 06/2012 - 08/2012; \$2,500 (PI)
- Award (2012) “Investigating Health Status and Health Systems in Vietnam”; Institute of East Asian Studies, Thammasat University; 06/2012 - 08/2012; \$4,540 (PI)
- Award (2012) “Research Into Health Outcomes Across the Mekong Region Basin” Institute of East Asian Studies, Thammasat University; 06/2012 - 08/2012; \$4,540 (CoPI)
- Award (2012) “*Connecticut Fire Chiefs Association: Analysis of Recruitment and Retention Strategies for Volunteer Firefighters*”; Federal Emergency Management Agency (FEMA), subcontract through the International Association of Fire Chiefs; 05/01/2011 – 01/31/2012; \$58,034 (PI)
- Award (2012) “*Supplement to: Determining the Spatial Characteristics of Volunteer Firefighters for Recruitment and Retention*”; Federal Emergency Management Agency (FEMA), subcontract through the International Association of Fire Chiefs; 01/31/2012 – 05/30/2012; \$10,000 (PI)
- Award (2011) “*Health Outcomes for the Mekong Region Basin*”; Institute of East Asian Studies and Thammasat University; 06/01/2011 – 09/30/2011; \$11,600 (CoPI)

- Award (2011) “*Determining the Spatial Characteristics of Volunteer Firefighters for Recruitment and Retention*”; Federal Emergency Management Agency (FEMA), subcontract through the International Association of Fire Chiefs; 05/01/2011 – 01/31/2012; \$56,447 (PI)
- Award (2011) “*Integrating Geographic Information Science and Operations Research for Emergency Deployment*”; Mason Provost Summer Research Funding; 5/2011 – 5/2012; \$5,000 (PI)
- Award (2010) “*The Spatial Elements of Health Outcomes in Kurdistan*”; Center for Global Studies; 01/2011 – 08/2011; \$5,000 (PI)
- Award (2008) “*Counter-IED Research for the Joint IED Defeat Organization*” Joint IED Defeat Organization (DoD), Participating Faculty: Kevin M. Curtin, PI: Kathryn B. Laskey, Co-PI: Andy Loerch, C4I Center with Participating Departments: Geography and GeoInformation Sciences, Systems Engineering and Operations Research, Center for Social Complexity, Electrical and Computer Engineering. \$7.6M (Participating Faculty)
- Award (2008) “*The Government Regional Economic And Transportation Location (GREATLocation) Planning Decision Support System*” General Services Administration; \$144,438 (Co-PI) (PI – Edmund Zolnik)
- Award (2007) “*Modeling and Analysis of the IED Threat*” Joint IED Defeat Organization (DoD), Participating Faculty: Kevin M. Curtin, PI: Kathryn B. Laskey, Co-PI: Andy Loerch, C4I Center with Participating Departments: Geography and GeoInformation Sciences, Systems Engineering and Operations Research, Center for Social Complexity, Electrical and Computer Engineering. \$979,000 (Participating Faculty)
- Award (2005): “*Waste-To-Energy Phase II: Strategic Geographic Planning Tool Development*”; Environmental Protection Agency, Region 6; PI: Kevin M. Curtin, CO-PI: Ronal Briggs, Fang Qiu; \$110,000 (PI)
- Award (2005): “*Linear Referencing as a Process*”; 2005 Intergraph Research Grant; \$173,000 in-kind software value (PI)
- Award (2005): Collin County Taskforce on Indigent Healthcare; \$155,183 (Research Faculty) (PI Richard Scotch)
- Award (2004): “*Waste-To-Energy: Strategic Geographic Planning Tool Development*”; Environmental Protection Agency, Region 6; PI: Ronald Briggs, CO-PI: Kevin M. Curtin, Fang Qiu; \$65,421 (Co-PI)
- Award (1996): “*Development of a Comprehensive Spatial Data Set for Santa Barbara*”, Teaching Assistant Instructional Grant, Instructional Development and Consultation Department, University of California at Santa Barbara

PRESENTATIONS:

Invited Presentations denoted by ¹

- Price, A.N, K.M. Curtin, N.R. Magliocca, D.F. Turner, P. Mitchell, K. McSweeney, and D.L. Summers (February 2022) “A Family of Models in Support of Realistic Drug Interdiction Location Decision Making”, Annual Meeting of the American Association of Geographers, Online.
- Mitchell, P., and K.M. Curtin (February 2022) “Opioid Use Disorder Spatial Risk Assessment Framework”, Annual Meeting of the American Association of Geographers, Online.
- Mitchell, P., K.M. Curtin, N.R. Magliocca, A.N. Price, and M. Hudnall (February 2022) “Disrupting Illicit Supply Networks: Exploring Behavioral Responses in Narco-Trafficking Operating Networks in a Spatial Optimization and Simulation Testbed Environment” Annual Meeting of the American Association of Geographers, Online.
- Mitchell, P., K.M. Curtin, N.R. Magliocca, A.N. Price, and M. Hudnall (November 2021) “Disrupting Illicit Supply Networks: Exploring Behavioral Responses in Narco-Trafficking Operating Networks in a Spatial Optimization and Simulation Testbed Environment” 76th Annual Meeting of the Southeastern Division of the American Association of Geographers, Florence, AL.
- Pawloski, L.R., K.M. Curtin, P. Mitchell, H. Ahmad, and T. Rasheed (September 2021) “COVID-19 and obesity: Implications for obesity prevention and global health interventions”, First Scientific Conference of the College of Health Sciences (Online), Hawler Medical University, Erbil, Kurdistan, Iraq.
- Curtin, K.M. and P. Mitchell (June 2021) “ALOFT Phase 2: Extensions, Testing, and Transfer to User Community”, Office of Naval Research Symposium, Online.
- Mitchell, P., S. Samsel, K.M. Curtin, A.N. Price, D.F. Turner, R. Tramp, M. Hudnall, J. Parton, D. Lewis (June 2021) “Geographic Disparities in Access to Medication for Opioid Use Disorder across

- US Census Tracts based on Treatment Utilization Behavior”, University Consortium for Geographic Information Science Annual Symposium, Online. 1st Place Student Poster Scholarship Award.
- Price, A.N., K.M. Curtin, N.R. Magliocca, D.F. Turner, P. Mitchell, K. McSweeney, and D.L. Summers (June 2021) “Counterdrug Strategy in Central America: Spatial Optimization to Inform Interdiction Resource Policy”, University Consortium for Geographic Information Science Annual Symposium, Online.
 - Magliocca, N.R., and K.M. Curtin (May 2021) “Disrupting Illicit Networks: Anticipatory Interdiction in Narco-Trafficking Networks”, Joint Inter-Agency Task Force – South consultation (Online).
 - Mitchell, P., S. Samsel, K.M. Curtin, A. Price, D. Turner, R. Tramp, M. Hudnall, J. Parton, and D. Lewis (April 2021) “Geographic Disparities in Access to Medication for Opioid Use Disorder across US Census Tracts based on Treatment Utilization Behavior”, Southeastern Universities Graduate Research Symposium (SUGRS), Online.
 - Mitchell, P., S. Samsel, K.M. Curtin, A. Price, D. Turner, R. Tramp, M. Hudnall, J. Parton, and D. Lewis (April 2021) “Geographic Disparities in Access to Medication for Opioid Use Disorder across US Census Tracts based on Treatment Utilization Behavior”, Annual Meeting of the American Association of Geographers, Online.
 - Curtin, K.M. and D.R. Montello (March 2021) “Accelerating Advances in Collective Spatial Cognition” Army Research Institute for the Social and Behavioral Sciences – Interim Program Review, March, Fort Belvoir, VA (online).
 - Rice, M.T., K.M. Curtin, and M. Yu (November 2020) “Interaction Dynamics for Crowdsourced Obstacle Data”. AutoCarto 2020, the 23rd International Research Symposium on Cartography and GIScience. CAGIS. Online.
 - Curtin, K.M. (2020) “Spatial Optimization: basic research challenges, educational opportunities, and applied successes” University Consortium for Geographic Information Science Annual Symposium, Honolulu, HI (changed to online poster due to COVID-19)
 - Mitchell, P., K.M. Curtin, and M.N. Rondinelli, (Scheduled 2020) “Spatial Analytic Tools and Techniques to Inform Research of Team Spatial Cognition” American Association of Geographers Annual Meeting, April, Denver, CO
 - Curtin, K.M. (Scheduled 2020) “Autonomous Logistics: Exploring the bounds of tractability for optimization methods” American Association of Geographers Annual Meeting, April, Denver, CO
 - Curtin, K.M. and D.R. Montello (March 2020) “A Research Foundation for Collective Spatial Cognition” Army Research Institute for the Social and Behavioral Sciences – Interim Program Review, March, Fort Belvoir, VA.
 - Curtin, K.M. (2019) “ALOFT Phase 2: Extensions, Testing, and Transfer to User Community”, Office of Naval Research, November, Arlington, VA.
 - Curtin, K.M. (2019) “Cuba Collaboration Efforts - Geographic Information Science and Operations Research”, University of Alabama Cuba Center Research Collaboration Conference, October, Havana, Cuba.
 - Curtin, K.M. (2019) “Brief presentation of potential quantitative approaches to measuring illicit networks”, Convergent Research Priorities, Data Sources, and Methodologies for Understanding the Socio-Environmental Causes and Consequences of Illicit Supply Networks, August, Tuscaloosa, AL.
 - Curtin, K.M. (2019) “A Family of Interdiction Models for Testing Illicit Network Response” Joint Inter-Agency Task Force – South, July, Key West, FL.
 - Curtin, K.M. and D.R. Montello (2019) “Accelerating Advances in Collective Spatial Cognition” Collective Spatial Cognition Specialist Meeting, April, Santa Barbara, CA.
 - Curtin, K.M. and D.R. Montello (2019) “Accelerating Advances in Collective Spatial Cognition” American Association of Geographers Annual Meeting, April, Washington, DC.
 - ¹Curtin, K.M. (2019) “Accelerating Advances in Collective Spatial Cognition” Army Research Institute for the Social and Behavioral Sciences – Interim Program Review, March, Fort Belvoir, VA.
 - ¹Curtin, K.M. (2018) “Operational-Level Optimization of Autonomous Logistics Enterprises”, US Marine Corps Research Colloquium, November, Quantico, VA.
 - ¹Curtin, K.M. (2018) “Operational-Level Optimization of Autonomous Logistics Enterprises”, US Joint Inter-Agency Task Force South Research and Practice Collaboration, November, Tuscaloosa, AL.

- ¹Curtin, K.M. (2018) “Getting Stuff from Here to There: Using GIS and Optimization for Unmanned Deliveries”, University of Alabama and Department of Geography GIS Day, November, Tuscaloosa, AL.
- ¹Curtin, K.M. (2018) “Accelerating Advances in Collective Spatial Cognition” Army Research Institute Research Colloquium, August, Fort Belvoir, VA.
- ¹Curtin, K.M. (2018) “Operational-Level Optimization of Autonomous Logistics Enterprises”, Office of Naval Research Program Review, July, Tuscaloosa, AL.
- ¹Curtin, K.M. (2018) “Software to Integrate Geographic Information Systems and Operations Research Capabilities: The Use Case of Unmanned Vehicle Logistics”, National Science Foundation - National Geospatial Software Institute Workshop, July, Chicago, IL.
- ¹Curtin, K.M. (2018) “Laboratory for Location Science Research Presentation Overview”, ERDC/UA Federal Priorities Collaboration Meeting, July, Tuscaloosa, AL.
- ¹Curtin, K.M. (2018) “Unmanned Aerial Vehicle Logistics Modeling and Performance: A Demonstration of Integrative Data Science”, AutoCarto/UCGIS Symposium 2018, May, Madison, WI.
- Curtin, K.M. (2018) “Autonomous Logistics Operations Family of Tools (ALOFT)” Association of American Geographers Annual Meeting, April, New Orleans, LA.
- ¹Curtin, K.M. (2017) “Determining Optimal Police Patrol Areas...and More: a Research Program in Quantitative Human Geography” Applied Mathematics Seminar Series, Department of Mathematics, November, Tuscaloosa, AL.
- ¹Curtin, K.M. (2017) “Determining Optimal Police Patrol Areas ...and More: A Transportation Research Program” Department of Geography, April, Tuscaloosa, AL.
- Barker, A.D., K.M. Curtin, R.M. Rice, and R.M. Medina (2016) “Studying team dynamics through analytic geosimulation and interactive games” Association of American Geographers Annual Meeting, April, San Francisco, CA.
- Rice, R.M., J.P. Solly, A.D. Barker, and K.M. Curtin (2016) “Understanding team spatial cognition through human subjects experiments involving map-based interactive computer games of team pursuit-and-evasion” Association of American Geographers Annual Meeting, April, San Francisco, CA.
- Pawloski, L.R., K.M. Curtin, and R.L. Hill (2016) “Extended Spatial Analysis for Enhanced Recruitment of Volunteer Fire Fighters” Association of American Geographers Annual Meeting, April, San Francisco, CA.
- Curtin, K.M. and J. Khangura (2016) “FSTAR Evaluation: Testing the Efficiency of Literature Searches” IAFC’s Wildland-Urban Interface Conference, March, Reno, NV.
- ¹Curtin, K.M. (2015) “Determining Optimal Police Patrol Areas with Maximal Covering and Backup Covering Location Models” Colloquium of the Computational Materials Science Center and the Department of Computational and Data Sciences, November, Fairfax, VA.
- Barker, A.D., K.M. Curtin, and R.M. Medina (2015) “A Data-Driven Framework for the Analysis of Geographic Patterns of Team Processes” Association of American Geographers Annual Meeting, April, Chicago, IL.
- Curtin, K.M. and R.L. Hill (2015) “Spatial Analysis to Enhance Recruitment of Volunteer Fire Fighters” Association of American Geographers Annual Meeting, April, Chicago, IL.
- ¹Curtin, K.M. and Pawloski, L.R. (2014) “Methodological Prospects with the use of Geographic Information Systems and Spatial Statistics for the Evaluation of Alcohol Policy” American Political Science Association Annual Meeting, August, Washington, D.C.
- ¹Curtin, K.M. and Pawloski, L.R. (2014) “Writing a Successful Grant Proposal for Comparative Research” Mandalay University of Nursing, July, Mandalay, Myanmar.
- ¹Curtin, K.M. (2013) “A Formula for Publishing in the Peer-Reviewed Literature” School of Allied Health Sciences, Thammasat University, August, Rangsit, Thailand.
- ¹Curtin, K.M. (2013) “The Potential for Geographic Information Systems (GIS) and Spatial Statistics to Contribute to Allied Health Sciences” School of Allied Health Sciences, Thammasat University, August, Rangsit, Thailand.
- ¹Curtin, K.M. and Pawloski, L.R. (2013) “Publishing in Peer-Reviewed International Journals”, Institute of East Asian Studies, Thammasat University, August, Rangsit, Thailand.

- ¹Curtin, K.M and Hill R.L. (2013) “Data Collection Issues for Tracking Volunteer Firefighter Recruitment and Retention” Virginia Fire Chiefs Association, June, Henrico, VA.
- ¹Curtin, K.M and Hill R.L. (2013) “Volunteer Workforce Solutions: Spatial Analysis of Firefighter Recruitment Activities” International Association of Fire Chiefs Orientation Session, ESRI Headquarters, April, Vienna, VA.
- Curtin, K.M., Pawloski, L.R., Rasheed, T. and Ahmad, H. (2013) “The Spatial Characteristics of BMI among Women in Kurdistan, Iraq”, Experimental Biology 2013, April, Boston.
- ¹Curtin, K.M. (2013) “The Transit Route Arc-Node Service Maximization Problem” Topics in Earth Systems Science, February, Fairfax, VA.
- Finnegan, S., Waters, N., Curtin, K.M., and T. Leslie (2012) “Using Geographic Information Systems to Evaluate the Use of Estimated Drive Times as Rational Service Areas for Primary Care”, 140th APHA Annual Meeting, October, San Francisco.
- ¹Curtin, K.M. and Pawloski, L.R. (2012) “Publishing in Peer-Reviewed International Journals”, Institute of East Asian Studies, Thammasat University, July, Rangsit, Thailand.
- Pawloski L.R., K.M. Curtin, H. Ahmad, T. Rasheed (2012) "Nutrition indicators and spatial characteristics among women in Kurdistan, Iraq" Experimental Biology, American Society for Nutrition, April, San Diego, CA.
- Pawloski, L.R., K.M. Curtin, C. Gewa, and D. Attaway (2012) “Maternal-child overweight and obesity in Kenya: A geographic analysis” International Conference on Nutrition and Growth, March, Paris, France.
- Curtin, K.M., L.R. Pawloski, C. Gewa, and D. Attaway (2012) “Maternal-child overweight/obesity and undernutrition in Kenya: a geographic analysis”, Annual Meeting of the Association of American Geographers, February, New York, NY.
- ¹ Curtin, K.M. (2011) “The Transit-Route Arc-Node Service Maximization Problem” Geography and GeoInformation Science Colloquium, November, Fairfax, VA.
- ¹ Curtin, K.M. and R. L. Hill (2011) “Firefighter Recruitment and Retention Survey Analysis” Virginia Fire Chiefs Association, Executive Board Meeting, September, Henrico, VA.
- ¹ Curtin, K.M. (2011) "Review of GIS Analytics for Volunteer Firefighter Recruitment and Retention" Virginia Fire Chiefs Association, Executive Board Meeting, July, Henrico, VA.
- ¹ Curtin, K.M. (2011) “Research Methods for Health Practice Research in the Greater Mekong Region” Institute for East Asian Studies, Thammasat University, July, Bangkok, Thailand.
- Pawloski, L, C. Gewa, K.M. Curtin, and D. Attaway (2011) “A geographic analysis of maternal-child overweight and obesity in Kenya” 36th Annual Meeting of the Human Biology Association, April, Minneapolis, MN.
- ¹ Curtin, K.M. and L. Pawloski (2011) “The Spatial Elements of Health Outcomes in Kurdistan” Invited Talk, Salahadin University, March, Erbil, Iraq.
- ¹ Curtin, K.M, and N. Perry (2010) “Linear Referencing Capabilities and Analytical Potential” 78th Annual Military Operations Research Society Symposium, June, Quantico, VA.
- ¹ Curtin, K.M., T. Leslie, and M. Rice (2010) “Geographic Research Programs for Collaboration with the Army GeoSpatial Center”, C4I Center, George Mason University, May, Fairfax, VA.
- ¹ Curtin, K.M, and N. Perry (2010) “Linear Referencing Capabilities and Analytical Potential” Annual Meeting of the Association of American Geographers, April, Washington, DC.
- ¹ Curtin, K.M., S. Murray, L. Pawloski, B. Self (2009) “Careers in GIS – Panel Presentation” Department of Geography and GeoInformation Science GIS Day, George Mason University, November, Fairfax, VA.
- ¹ Perry, N. and K.M. Curtin (2009) “Linear Referencing of Blue Force Tracker Returns and their use in Afghanistan Road Network Creation” JIEDDO Blue Force Tracker Working Group, November, Arlington, VA.
- ¹ Curtin, K.M. and N. Perry (2009) “Linear Referencing for Network Analysis of IED Events” JIEDDO Reston Facility Working Group, November, Reston, VA.
- Curtin, K.M. (2009) “A Research Program: Optimal Facilities Location, Network GIS and Linear Referencing, and Traditional Area Studies” Department of Geography and GeoInformation Science, George Mason University, October, Fairfax, VA.

- Stimpson, D., K.M. Curtin, K. Leister, P. Kolesar, and N. Perry (2009) “RCT Scheduling to Limit IED Risk to Convoys” INFORMS Annual Meeting, October, San Diego, CA.
- Curtin, K.M. and N. Perry (2009) “Linear Referencing for Network Analysis” The 17th International Conference on Geoinformatics, August, Fairfax, VA.
- Leister, K., D. Stimpson, K.M. Curtin, P. Kolesar, and N. Perry “RCT Scheduling to Limit IED Risk to Convoys” 77th Annual Military Operations Research Society Symposium, June, Leavenworth, KS.
- ¹ Curtin, K.M. (2009) “Linear Referencing Capabilities and Analytical Potential” JIEDDO Partner Meeting, Institute for Defense Analyses, April, Arlington, VA.
- ¹ Curtin, K.M. (2009) “Linear Referencing of Key Environmental Variables”, Institute for Defense Analyses Technical Exchange, March, Arlington, VA.
- ¹ Curtin, K.M. (2009) “Linear Referencing Capabilities and Analytical Potential” C4I Center Technical Exchange, George Mason University, March, Fairfax, VA.
- ¹ Curtin, K.M. (2009) “Linear Referencing for Road Network Analysis of IED Events” JIEDDO Senior Mentor Deep Dive, Institute for Defense Analyses, March, Arlington, VA.
- ¹ Curtin, K.M. (2008) “Route Clearance Team Road Network Modeling and Analysis” JIEDDO Senior Mentor Deep Dive, Institute for Defense Analyses, October, Arlington, VA.
- ¹ Curtin, K.M. (2008) “Improvised Explosive Device Analysis on Road Networks” TRADOC Requirements Analysis Center – White Sands Missile Range, August, Las Cruces, NM.
- ¹ Curtin, K.M. (2008) “Improvised Explosive Device Analysis on the Network” Institute for Defense Analyses, JIEDDO Technical Exchange, July, Arlington, VA.
- ¹ Curtin, K.M., and J. Hebert (2008) “An Analysis of Errors in the Use of ZIP Code Polygons” National Institute of Justice Seminar Series, May, Washington, DC.
- Curtin, K.M., and J. Hebert (2008) “An Analysis of Errors in the Use of ZIP Code Polygons” Annual Meeting of the Association of American Geographers, April, Boston, MA.
- ¹ Curtin, K.M., G. Voicu (2008) “An Analysis of Traveling Salesman Implementations in Geographic Information Systems” Gamma Theta Upsilon Seminar Series, February 28, Fairfax, VA.
- Curtin, K.M. (2007) “Collaborations, Connections, and Partnerships: Opportunities for Location Science in Public-Private Partnerships” Association of American Geographers – Mid-Atlantic Division. Panel Presentation. October, Suitland, MD.
- Curtin, K.M., G. Voicu (2007) “An Analysis of Traveling Salesman Implementations in Geographic Information Systems” Annual Meeting of the Association of American Geographers, April, San Francisco, CA
- ¹ Curtin, K.M. (2007) “Spatial Optimization and GIS for Urban Policy: Optimal transit routing and police patrol areas”, George Mason University, March, Fairfax, VA.
- ¹ Curtin, K.M. (2007) “Spatial Optimization and GIS for Urban Policy Issues: Optimal transit routing and police patrol area delineation”, Michigan State University, February, East Lansing, MI
- ¹ Curtin, K.M. (2007) “Optimization in Urban and Transportation Planning: Two Case Studies”, University of North Carolina, January, Charlotte, NC
- ¹ Curtin, K.M. (2007) “Spatial Optimization and GIS for Public Administration: Two Case Studies” Salisbury University, January, Salisbury, MD
- Curtin, K.M., K. Hayslett-McCall, and F. Qiu (2006) Determining Optimal Police Deployments with Maximal Covering and Backup Covering Location Models, Southwestern Association of Criminal Justice, Annual Meeting, Fort Worth, TX
- ¹ Curtin, K.M., and S. Biba (2006) The Transit Route Arc-Node Service Maximization Problem, School of Social Sciences Workshop Series, March, Richardson, TX
- Curtin, K.M., and S. Biba (2006) The Transit Route Arc-Node Service Maximization Problem, Annual Meeting of the Association of American Geographers, March, Chicago, IL
- ¹ Curtin, K.M. (2005) The Waste-to-Energy Strategic Geographic Planning Tool; Environmental Protection Agency – Region 6, Dallas, TX
- Curtin, K.M. (2005) Visualization and Data Modeling for Transportation Applications in Geographic Information Science, Texas Transportation Summit, Irving, TX
- ¹ Curtin, K.M. (2005) Employing the Police Patrol Area Covering Model with Dallas Police Geography; Dallas, TX

- ¹ Curtin, K.M. (2005) Poverty and Demographics in Collin County; Collin County Indigent Health Care Task Force
- ¹ Curtin, K.M. (2005) GIS Network Methods for Oil and gas Exploration; Antares Energy, Dallas, TX
- ¹ Curtin, K.M. (2005) Mapping and Analysis of Estimated Populations with BMI over 40; MSO Medical Group, Bannockburn, IL
- Curtin, K.M. (2004) A New Method for Determining the Population with Access to Transit. Southwest Association of American Geographers Meeting, November, Nacogdoches, TX
- Curtin, K.M. (2004) Integrating GIS and Maximal Covering Models to Determine Optimal Police Patrol Areas. Annual Meeting of the Association of American Geographers, March.
- ¹ Curtin, K.M. (2003) Transportation Data Modeling for GIS. North Central Texas Council of Governments (NCTCOG), Arlington, TX.
- ¹ Curtin, K.M. (2003) Integrating GIS and Maximal Covering Models to Determine Optimal Police Patrol Areas. Social Science Workshop, University of Texas at Dallas.
- ¹ Curtin, K.M. (2003) A Regional Geography of Colombia. Social Science Workshop, University of Texas at Dallas.
- Curtin, K.M. (2003) Determining the Optimal Spatial Distribution of Police Patrol Areas. American Society of Criminology Annual Meeting, Denver, CO (Given by Tim Bray).
- ¹ Curtin, K.M. (2002) Data Modeling for Transportation GIS Applications. Social Science Workshop, University of Texas at Dallas.
- Curtin, K.M. (2002) Models for Multiple-Type Dispersion. 98th Annual Meeting of the Association of American Geographers, Los Angeles, CA.
- Curtin, K.M. (2001) Transportation Data Modeling Using Extracted Center Lines. CLEM2001 Conference. Santa Barbara, CA.
- ¹ Curtin, K.M. (2001) The UNETRANS Data Model. ESRI International Users Conference (Transportation Specialist Meeting), San Diego, CA.
- ¹ Curtin, K.M. (2000) An Essential Transportation Data Model. 7th World Congress on Intelligent Transport Systems, Turin, Italy.
- ¹ Curtin, K.M. (1998). A Hybrid Grid-Network Data Model, National Center for Geographic Information and Analysis (NCGIA) Annual Meeting, Orono, ME.
- ¹ Curtin, K.M. (1997) Capturing Modeling, and Eliminating Uncertainty in Network Databases. National Imagery and Mapping Agency (NIMA) Consultation, Santa Barbara, CA.
- Curtin, K.M. (1997) Georeferencing of Landsat Scenes and Hydrologic Network Generation for Rondonia, Brazil. Poster Presentation, 93rd Annual Meeting of the Association of American Geographers, Fort Worth, TX.
- Curtin, K.M. (1996) A Comprehensive Digital Spatial Data Set for Undergraduate Geographic Analysis. 81st Annual Meeting of the National Council for Geographic Education. Santa Barbara, CA.
- Curtin, K.M. (1996) Redefining Non-Planar Networks, Department of Geography Colloquium Series, Santa Barbara, CA.
- Curtin, K.M. (1995). Profile of Potential Circulator Ridership. Proceedings, 91st Annual Meeting of the Association of American Geographers. Chicago, IL.
- Curtin, K.M., Higgins, D., Kos, L., and Hanley, D. (1994) The Potential for Public Transit in Shopping Activities. Proceedings, Metropolitan Conference on Public Transportation Research. Chicago, IL.

WORKING PAPERS AND REPORTS:

- Curtin, K.M. and N. Perry (2009) "Road Network Analysis and Linear Referencing" Annual Technical Report, George Mason University – JIEDDO Project, 30 September 2009, Ed. Dr. Kathryn Blackmond Laskey.
- Curtin, K.M. (2008) "Linear Referencing of IED Events – Network Density, Overlay Analysis, Optimization, and GIS Tool Building" Red-Blue Interaction Modeling Research for the Joint Improvised Explosive Device Defeat Organization: Final Report, 30 September 2008, Ed. Dr. Kathryn Blackmond Laskey.
- Curtin, K.M. (2005) "Network GIS Analysis", Research Brief, University Consortium for Geographic Information Science

- Curtin, K.M. (2005) “The Waste-to-Energy Geographic Planning Tool: User Documentation”, UTD and Environmental Protection Agency – Region 6
- Soot, S., Tang, P., and Curtin, K.M. (1995) A Demographic Study of the Illinois Asian-American Community. Asian American Institute. Chicago, IL.
- Sööt, S., A. Sen, K.M. Curtin and P. Metaxatos (1994). Analysis of Employment Hubs and Work Trip Patterns in the Chicago Metropolitan Region. Urban Transportation Center, University of Illinois at Chicago, Chicago, Illinois.
- Sen, A., S. Soot, K. Curtin and P. Metaxatos (1994). Who Travels to the Chicago Central Area. Chicago Central Area Circulator Project. Working paper #1, Chicago, Illinois.
- Sen, A., S. Soot, K. Curtin and P. Metaxatos (1994). Residential Locations of Chicago Central-Area Travelers. Chicago Central Area Circulator Project. Working paper #2, Chicago, Illinois.

PROFESSIONAL SERVICE:

- Associate Editor
 - Transactions in GIS – Associate Editor for the Americas (2022 – Present)
- Editorial Board Member
 - Computers, Environment, and Urban Systems (2011 – Present)
 - Transportation Research Part E – Logistics and Transportation Review (2017 – Present)
- Faculty Advisory Council, College of Arts and Sciences (2019 – Present)
- Department of Geography Faculty Council (2021 – Present)
- Department of Geography Awards Committee, Chair (2018 – Present)
- Department of Geography Strategic Planning Committee, Chair (2017 – 2021)
- GIS Program Committee (2017 – Present)
- Department of Geography Tenure, Promotion, and Renewal Committee (2017 – Present)
- Physics and Astronomy Program Review Committee (2019 – 2020)
- University Doctoral Education Working Group (2016 – 2017)
- University Undergraduate Council (2016 – 2017)
- College of Science Budget Planning Committee (2014 – 2017)
- Students as Scholars Quality Enhancement Plan Leadership Council (2014 – 2017)
- University Graduate Council (2014 – 2017)
- University Assessment Council (2014 – 2017)
- University Classroom Advisory Committee (2014 – 2017)
- College of Science Dean’s Scholarship Committee (2014 – 2017)
- Coordinator – Master of Science in Geographic and Cartographic Sciences (2008 – 2014)
- College of Science Executive Council (2010 – Present) Chair (2011 – 2012)
- GGS Curriculum Committee (2010 – 2014) Chair 2011-2012
- College of Science Promotion and Tenure Level 2 Committee (2010 – 2013)
- GGS Website Committee (2009 – 2014)
- GGS Student Awards Committee (2009 – 2014)
- Association of American Geographers – South East Division, Virginia Representative (2008 – 2010)
- Geography and Geoinformation Science Department Chairs Advisory Committee (2009 – 2010)
- Geography and Geoinformation Science Department Chair Renewal Committee (2009 – 2010)
- Geospatial Intelligence and GeoInformatics Search Committee (2009 – 2010)
- Geography and Geoinformation Science Bylaws Committee (2008)
- Geography and Earth Systems and Geoinformation Sciences Merger Committee (2007 – 2008)
- Geospatial Information Sciences PhD Program Committee (2006 – 2007)
- School of Economic, Political and Policy Sciences Faculty Advisory Committee (2005 – 2006)
- University Consortium for Geographic Information Science Research Committee (2005 – 2007)
- University Consortium for Geographic Information Science Model Curricula Board (2005 – 2007)
- University Consortium for Geographic Information Science Travel Award Committee (2006 – 2008)
- Geographic Information Sciences PhD Program Committee (2005 – 2007)

- Geographic Information Sciences Faculty Search Committee (2005 – 2007)
- Faculty Advisor for the Chi Phi Fraternity – Psi Zeta Chapter (2003 – 2007)
- Faculty Advisor University of Texas at Dallas Geography Club (2003 – 2007)
- University of Texas at Dallas – Faculty Senate (2004 – 2005)
- External Advisory Board for Research (2003)
- Development of Guidelines for a Master’s Degree Report for the Master’s Degree in Geographic Information Science (2003)
- Reviewer:
 - Computers, Environment, and Urban Systems – 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
 - Transportation Research Part E; Logistics and Transportation Review – 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
 - Transactions in GIS – 2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021
 - International Journal of Applied Geospatial Research – 2021
 - Environment and Planning B – 2011, 2012, 2021
 - Geographical Analysis – 2011, 2012, 2013, 2014, 2018, 2021
 - Cartography and Geographic Information Science – 2010, 2014, 2018, 2021
 - European Journal of Operational Research – 2007, 2008, 2009, 2016, 2018, 2021
 - CRC Press, Taylor and Francis – 2021
 - University Consortium for Geographic Information Science – 2021
 - National Geographic – 2021
 - Cengage -- 2021
 - Socio-Economic Planning Sciences – 2006, 2011, 2016, 2020
 - Journal of Transport Geography – 2014, 2020
 - Kuwait Foundation for the Advancement of Science – 2020
 - International Journal of Geographical Information Science – 2004, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019
 - Taylor and Francis – 2015, 2019
 - Engineering Research and Development Center – 2017, 2018, 2019
 - National Science Foundation – 2004, 2008, 2018
 - Networks and Spatial Economics – 2009, 2010, 2012, 2014, 2016, 2018
 - IEEE Transactions on Intelligent Transportation Systems – 2017, 2018
 - Papers in Regional Science – 2013, 2018
 - The Professional Geographer – 2006, 2009, 2018
 - The Open Transportation Journal – 2018
 - UCGIS Body of Knowledge – 2018
 - Public Health Nutrition – 2015, 2018
 - Journal of the Operational Research Society – 2011, 2018
 - University of Southern Mississippi – 2018
 - Southern Association of Colleges and Schools; on-site committee – 2017
 - Transportation – 2017
 - Science of the Total Environment – 2017
 - Photogrammetric Engineering and Remote Sensing – 2016
 - Current Psychiatric Reviews – 2016
 - Annals of Operations Research – 2010, 2011, 2012, 2015
 - Spatial Cognition and Computation – 2015
 - Springer – 2011, 2012, 2014
 - Weather, Climate, and Society – 2014
 - Center for Global Studies, Faculty Research Proposal Reviewer – 2011, 2014
 - IEEE Transactions on Systems, Man, and Cybernetics: Systems – 2013, 2014
 - Springer; “Computational Approaches for Urban Environments” – 2014

- Systems – 2014
- Sustainability – 2011, 2014
- Transportation Research Part A; Policy and Practice – 2013
- Geografiska Annaler Series B – 2013
- World Medical and Health Policy – 2012
- Cartographica – 2011, 2012
- University of Illinois at Chicago – 2012
- GMU Provost’s Summer Research Funding Proposals – 2012
- Collegium Antropologicum – 2011
- Environmental Protection Agency – STAR Program Peer/Panel Reviewer – 2011
- International Journal of Emergency Management – 2010
- Transportation Research C – 2010
- W. H. Freeman – 2006, 2008, 2010
- Community-Based Operations Research – 2010
- International Journal of Sustainable Transportation – 2010
- Spatial Cognition and Computation – 2009
- U.S. Department of Justice, National Institute of Justice – 2007, 2008, 2009
- Routledge – 2008
- Papers of the Applied Geography Conferences – 2008
- Environment and Planning A – 2007
- Regional Science Association – 2007
- World Council on Transportation Research – 2007
- Prentice Hall-Pearson Education – 2006
- Annals of the Association of American Geographers – 2004, 2006
- John Wiley & Sons – 2005, 2006
- Brooks/Cole, Thompson Learning – 2006
- Idea Group Reference – 2006
- Geographic Information Systems and Crime Analysis – 2003

STUDENT ADVISING AND MENTORSHIP:

Key: Academic Advisor (AA)
 Dissertation Director (DD)
 Dissertation Committee Member (DC)
 Master’s Thesis Director (MD)
 Master’s Thesis Committee Member (MC)
 Comprehensive Exam Director (CD)
 Comprehensive Exam Committee Member (CC)

- Ph.D. Student Advising (Student; Department; Role(s); Status)
 - Will Elkins; Geography; DC; In progress
 - Ashleigh Price; Geography; AA, DD; In progress
 - Penelope Mitchell; Geography; AA, DD; In progress
 - Daniel Turner; Geography; AA, DD; In progress
 - Dan Stimpson; Systems Engineering and Operations Research; DC; PhD awarded 2017
 - Aisha Haynes; Geography and GeoInformation Science; DC; PhD awarded 2017
 - Kevin Winkler; Computational Sciences and Informatics; DC; PhD awarded 2016
 - Alese Wooditch; Criminology, Law, and Society; DC; PhD awarded 2016
 - Breanne Cave; Criminology, Law, and Society; DC; PhD awarded 2016
 - Michael A. Tischler; Geography and GeoInformation Science; DC; PhD awarded 2015
 - Alec Barker; Geography and GeoInformation Science; AA, DD; PhD awarded 2015
 - Xi Mei; Geography and GeoInformation Science; DD; PhD awarded 2015

- Mike Hallworth; Environmental Science and Public Policy; DC; PhD awarded 2014
- Arun Shankar; Systems Engineering and Operations Research; DC; PhD awarded 2014
- Jon Clark; Geography and GeoInformation Science; DC; PhD awarded 2013
- Ellen Zapata; School of Public Policy PhD; DC; PhD awarded 2013
- Li Fang; Geography and GeoInformation Science; DC; PhD awarded 2012
- Thomas Ferstle; School of Arts and Humanities; DC; PhD awarded 2007
- Iny Hwang; School of Management; DC; PhD awarded 2005
- Anand Krishnamoorthy; School of Management; DC; PhD awarded 2004
- John Walton Turner, Jr.; School of Arts and Humanities; DC; PhD awarded 2003

- Master's Student Advising (Student; Degree; Role(s); Status)
 - Cooper Corey; MS-GEOG; MC; In progress
 - Donald "Pat" Leisure; MS-GEOG; MD; In progress
 - Brad Barrick; MS-GEOG; MC; In progress
 - Jesslyn Blankenship; MS-GEOG; MC; Awarded Spring 2021
 - Katie Jack; MS-GEOG; MC; Degree Awarded Spring 2020
 - Jared Campbell; MS-GEOINT; MD; Degree Awarded Spring 2019
 - J.K. Robinson; MS-GECA; MD; Degree Awarded Fall 2018
 - John Solly; MS-GEOINT; MD; Degree Awarded Summer 2017
 - Xiechun Lu; MS-GECA; MC; Degree Awarded Summer 2017
 - Bradley Boileau; MS-GECA; CC; Degree Awarded Spring 2017
 - Kate Malpeli; MS-ESP; MC; Degree Awarded Spring 2017
 - Trevor Mackessy-Lloyd; MS-GECA; MD; Degree Awarded Spring 2017
 - Bryant Garcin; MS-GEOINT; MC; Degree Awarded Spring 2017
 - Mark Cromwell; MS-GECA; CC; Degree Awarded Spring 2016
 - Alison Regan; MS-GEOINT; MC; Degree Awarded Spring 2016
 - Michael Ryan; MS-GECA; CD; Degree Awarded Spring 2016
 - Jennifer Smith; MS-GEOINT; MD; Degree Awarded Spring 2016
 - Jesse Burns; MS-GECA; CC; Degree Awarded Spring 2016
 - Benjamin Prentice; MS-GECA; CC; Degree Awarded Fall 2015
 - Rebecca Rice; MS-GECA; MC; Degree Awarded Fall 2015
 - Robin Rodgers; MS-GEOINT; MD; Degree Awarded Fall 2015
 - Brandi Nies; MS-GEOINT; MD; Degree Awarded Spring 2015
 - Brandy Holstein; MS-EVPP; MD; Degree Awarded Spring 2015
 - Tabatha Wilson; MS-GECA; CD; Degree Awarded Fall 2014
 - Patricia Pease; MS-GECA; MC; Degree Awarded Summer 2014
 - Christopher Chang; CERG-GISC; AA, CD; Degree Awarded Spring 2014
 - Brandon Meitz; MS-GECA; AA; Degree Awarded Spring 2013
 - John Cooke; MS-GECA; AA, MD; Degree Awarded Spring 2013
 - Peter Lostritto; MS-GECA; MC; Degree Awarded Spring 2013
 - Jimmy Bryant; MS-GECA; MD; Degree Awarded Spring 2013
 - William Moore; MS-GECA; AA; Degree Awarded Fall 2012
 - Robert Subasavage; MS-GECA; CC; Degree Awarded Fall 2012
 - Rodney Vese; MS-GECA; CD; Degree Awarded Fall 2012
 - Thomas Wampler; MS-GECA; AA, CD; Degree Awarded Fall 2012
 - Robert Shaffer; MS-GECA; AA; Degree Awarded Fall 2012
 - Sage McLaughlin; MS-GECA; CD; Degree Awarded Fall 2012
 - Tunaggina Khan; MS-GECA; MD; Degree Awarded Fall 2012
 - Thomas Gertin; MS-GEOINT; MD; Degree Awarded Fall 2012
 - Aisling Chapin; CERG-GIS, MS-GECA; AA, MC; Degree Awarded Fall 2012
 - Elise Capelli; MS-GECA; CD; Degree Awarded Summer 2012

- Matthew Juarin; MS-GECA; AA; Degree Awarded Spring 2012
- Sean Finnegan; MS-GECA; AA, MC; Degree Awarded Spring 2012
- Liza Alter-Diamond; MS-GECA; CD; Degree Awarded Spring 2012
- John Kalimon; MS-GECA; AA; Degree Awarded Fall 2011
- Randall Marks; MS-GECA; AA, CD; Degree Awarded Fall 2011
- Allison Paraham; MS-GECA; AA; Degree Awarded Fall 2011
- Gerald Pasquier; CERG-GI, MS-GEOINT; AA; Certificate Awarded Spring 2011
- Rebecca Hill; MS-GECA; AA, CD; Degree Awarded Spring 2011
- Ranjay Shrestha; MS-GECA; MC; Degree Awarded Spring 2011
- James Bailey; MS-GECA; CC; Degree Awarded Spring 2011
- Curt Hammill; MS-GECA; CC; Degree Awarded Spring 2011
- Merlin Anderson; MS-GECA; MC; Degree Awarded Spring 2011
- Xi Mei; MS-GECA; CC; Degree Awarded Spring 2011
- Christopher Kennedy, MS-GECA AA; Degree Awarded Spring 2011
- Megan Thyng; MS-GECA; AA, CD; Degree Awarded Spring 2011
- Timothy Rosner; MS-GECA; AA, MD; Degree Awarded Spring 2011
- Kristen Slawter; MS-GECA; AA; Degree Awarded Spring 2011
- Antanina Lallement; CERG-GIS; AA; Degree Awarded Spring 2011
- David Glassett; MS-GECA; AA; Degree Awarded Fall 2010
- Christopher Simmons; MS-GECA; CD; Degree Awarded Fall 2010
- David Eckley; MS-GECA; MD; Degree Awarded Fall 2010
- Li Fang, MS-GECA; MC, Degree Awarded Fall 2010
- Laura Rosenshein; MS-GECA; MC; Degree Awarded Summer 2010
- Rafael Ferraro; MS-GECA; CC; Degree Awarded Summer 2010
- Kalyna Malm Watts, MS-GECA; AA; Degree Awarded Spring 2010
- Jamie Brow; MS-GECA; CD; Degree Awarded Spring 2010
- Nancy Perry; MS-GECA; AA, CD; Degree Awarded Spring 2009
- Chad Blevins; MS-GECA; AA; Degree Awarded Spring 2009
- Karen Barnhouse-Hottle; MS-GECA; CC; Degree Awarded Spring 2009
- Andrew Walker; MS-GECA; CC; Degree Awarded Spring 2009
- Robert Thornett; MS-GECA; AA; Degree Awarded Spring 2009
- Jennifer Heber; MS-GECA; AA; Degree Awarded Spring 2009
- Melissa Curtiss; MS-GECA; AA, CD; MS Awarded Spring 2009
- Timothy Demorest; MS-GECA; AA, CD; Degree Awarded Spring 2008
- Binod Adhikari; MS-GIS; AA, MD; Degree Awarded Summer 2007
- Ma, Jielia; MS-GIS; MC; Degree Awarded Summer 2007
- Li, Jianghong; MS-GIS; MC; Degree Awarded Summer 2007
- Ayres, Jeffrey; MS-GIS; MC; Degree Awarded Spring 2007
- Hubenig, Jennifer; MS-GIS; MC; Degree Awarded Spring 2007
- Jett, Janice; MS-GIS; MC; Degree Awarded Spring 2007
- Xiao, Guang; MS-GIS; MC; Degree Awarded Spring 2007
- Kamali Velevan; MS-GIS; AA, MD; Degree Awarded Fall 2006
- Bradley, Cheryl; MS-GIS; MC; Degree Awarded Fall 2006
- Nazia, Nushrat; MS-GIS; MC; Degree Awarded Fall 2006
- Su, Hong; MS-GIS; MC; Degree Awarded Fall 2006
- Gabriela Voicu; MS-GIS; AA, MD; Degree Awarded Summer 2006
- John Fell; MS-GIS; AA, MD; Degree Awarded Summer 2006
- Uchit Patel; MS-GIS; MD; Degree Awarded Summer 2006
- Bourdier, Jeff; MS-GIS; MC; Degree Awarded Summer 2006
- Eger, Stefano; MS-GIS; MC; Degree Awarded Summer 2006
- Crews, John; MS-GIS; MC; Degree Awarded Summer 2006

- Daniel Turner; MS-GIS; AA, MD; Degree Awarded Fall 2005
- Russell Frith; MS-GIS; MD; Degree Awarded Fall 2005
- Janis Schubert; MS-GIS; AA, MD; Degree Awarded Summer 2005
- Stace Maples; MS-GIS; AA, MD; Degree Awarded Summer 2005
- Greta Nicoara; MS-GIS; AA, MD; Degree Awarded Summer 2005
- Adam Bauer; MS-GIS; AA, MD; Degree Awarded Spring 2005
- Yan Li; MS-GIS; AA, MD; Degree Awarded Spring 2005
- Juliana Castillo; MS-GIS; AA, MD; Degree Awarded Spring 2005
- Huang, Jian; MS-GIS; MC; Degree Awarded Spring 2005
- Baciu, Georgeta; MS-GIS; AA, MC; Degree Awarded Fall 2005
- Ibrahim, Sulafa; MS-GIS; MC; Degree Awarded Fall 2005
- Madrid, George; MS-GIS; MC; Degree Awarded Spring 2005
- Zou, Zijun; MS-GIS; MC; Degree Awarded Spring 2005
- Alex Michael; MS-GIS; MC; Degree Awarded Fall 2004
- Courtney Russell; MS-GIS; MD; Degree Awarded Fall 2004
- Thakkar, Pathik; MS-GIS; MC; Degree Awarded Fall 2004
- Ge, Rui; MS-GIS; MC; Degree Awarded Summer 2004
- Gonzalez, Jose; MS-GIS; MC; Degree Awarded Summer 2004
- Siluvairajan, C.; MS-GIS; MC; Degree Awarded Summer 2004
- Crowe, Rachel; MS-GIS; MC; Degree Awarded Spring 2004
- Foster, Stephen; MS-GIS; MC; Degree Awarded Spring 2004
- Monga, Sonia; MS-GIS; MC; Degree Awarded Spring 2004
- Long Ma; MS-GIS; AA, MD; Degree Awarded Fall 2003
- James Janning; MS-GIS; MC; Degree Awarded Fall 2003

TEACHING EXPERIENCE: (* course developed)

- University of Alabama
 - Professor
 - *GY 110 – People, Place, and Environment
 - *GY 443/543 – Location Science
- George Mason University
 - Associate Professor
 - GGS 999 – Dissertation Research
 - GGS 998 – Dissertation Proposal
 - GGS 799 – MS Thesis Research
 - GGS 698 – Directed Readings and Research
 - GGS 695 – Internship
 - *GGS 685 – Capstone in GeoInformatics
 - *GGS 675 – Location Science
 - *GGS 653 – Geographic Information Analysis
 - *GGS 563 – Advanced Geographic Information Systems
 - *GGS 553 – Introduction to Geographic Information Systems
 - *GGS 505 – Transportation Geography
- University of Texas at Dallas:
 - Assistant Professor:
 - Geographic Information Sciences 8V29 – GIS Research
 - Geographic Information Sciences 8V01 – GIS Independent Study
 - Geographic Information Sciences 7389 – GIS PhD Research Project Qualifier
 - Geographic Information Sciences 6389 – GIS Master’s Project
 - *Geographic Information Sciences 6387 – GIS Workshop
 - *Geographic Information Sciences 6385 – GIS Theories, Models, and Issues
 - *Geographic Information Sciences 6379 – GIS Network Modeling
 - *Geography 3373 – Transportation and Logistics

- *Geography 3323 – Geographic Information Systems for Social Scientists
 - *Geography 2303 – World Regional Geography
- University of California - Santa Barbara:
 - Geography Department Lead Teaching Assistant 1998, 1999
 - Teaching Associate:
 - *Geography 225 - Special Issues in Geography (Graduate AML Programming)
 - *Geography 13 - Introduction to Geographic Computing
 - *Geography 5 - Human Geography
 - Teaching Assistant:
 - *Geography 500 - TA Training
 - Geography 185B - Location and Environmental Issues in Planning
 - Geography 185A - Planning Issues and Methods
 - Geography 176A - Introduction to Geographic Information Systems
 - Geography 176B - Technical Issues in Geographic Information Systems
 - Geography 176C - Application Issues in Geographic Information Systems
 - Geography 5 - Human Geography
- University of Illinois at Chicago:
 - Teaching Assistant: Geography 275 - Computer Cartography

HONORS AND AWARDS:

- The Tom Rozwadowski Medal (2021) Best written contribution to Operations Research made by a member of the Operations Research Society of South Africa.
- 2010-2011 George Mason University Teaching Excellence Award for Teaching with Technology
- 2010-2011 College of Science Outstanding Teacher Award
- University Consortium for Geographic Information Science (UCGIS) Summer Intergraph Young Scholar Award, 2005
- Graduate Division Dissertation Fellowship, 2002
- Outstanding Teacher in Geography, Department of Geography, UCSB, 2000-2001
- AM/FM International Scholarship, 1996
- Western Coal Transportation Association - Outstanding Student in Transportation, 1996
- University of California - Santa Barbara, Regents Special Fellowship, 1995-1999
- Douglas B. Carter Award for excellence in Geography, 1994
- Illinois Geographic Society - Outstanding Senior in Geography Award, 1994
- University of Illinois Scholarship Association Award, 1994

PROFESSIONAL MEMBERSHIPS:

- Association of American Geographers (AAG)