**Daniel W. Goldberg, Ph.D.**

Department of Geography

College of Geosciences

Texas A&M University

Eller O&M Building, Room 810

College Station, TX 77843-3148

Phone: 979-845-6395

Email: daniel.goldberg@tamu.edu

Web: http://geography.tamu.edu

# Current Appointments

Texas A&M University

Assistant Professor of Geography 2012 – Present

Director, TAMU GeoInnovation Center 2012 – Present

# Education

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| Ph.D., Computer Science, University of Southern California  Dissertation Title: *Spatial Approaches to Reducing Error and Uncertainty in Geocoded Data* | 2010 |
| M.Sc., Computer Science, University of Southern California  Specialization: *Multimedia & Creative Technologies, Networks and Databases Track* | 2003 |
| B.Sc., Computer Science, Rutgers University | 2002 |

# Academic Experience

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| Texas A&M University  Assistant Professor of Geography | 2012 – Present |
| Curtin University & Western Australia Department of Health  Visiting Scholar | 2012 |
| University of Southern California  Research Assistant Professor of Spatial Science  Associate Director, USC GIS Research Laboratory  Graduate Research Assistant, USC GIS Research Laboratory  Graduate Research Assistant, USC GIS Research Laboratory | 2010 – 2012  2010 – 2012  2004 – 2010  2003 |

# IndustrY Experience

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| Software Engineer, Fetch Technologies, El Segundo, CA | 2003 – 2004 |
| Software Engineering Intern, Citicorp Development Center , Marina Del Rey, CA | 2003 |

# Professional Certifications

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| Internet Technology Certificate, Department of Computer Science, Rutgers University | 2002 |

# Honors and Awards

## Professional

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| Service Award – 200 Hours, California Science Center | 2012 |
| Mentor Fellowship Program Recipient, North American Association of Central Cancer Registries | 2011 |
| Certificate of Appreciation, North American Association of Central Cancer Registries | 2009 |

## Graduate

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| Finalist, William L. Garrison Award for Best Dissertation in Computational Geography, Association of American Geographers | 2010 |
| Esri Development Center Student of the Year, Environmental Sciences Research Institute | 2010 |
| Association of Pacific Rim Universities USC Provost Travel Award, University of Southern California | 2009 |
| Science, Mathematics and Research for Transformation (SMART) Scholarship for Service Program Fellowship, United States Department of Defense | 2007 |
| Second Place, GIS Specialty Group Honors Competition for Student Papers on GIS, Association of American Geographers | 2007 |
| University Scholarship Program Recipient, United States Geospatial Intelligence Foundation | 2005 |

# Publications

## Refereed Journal Articles

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| --- |
| Henry KA, Sherman R, Farber S, Cockburn MG, Goldberg DW, Stroup AM. The joint effects of census tract poverty and geographic access on late-stage breast cancer diagnosis in 10 US States. *Health & Place* 21: 110-121 (2013). |
| Ghosh JKC, Wilhelm M, Su J, Goldberg DW, Cockburn MG, Jerrett M, Ritz B. Assessing the influence of traffic-related air pollution on term LBW based on land use regression models and air toxics measures. *American Journal of Epidemiology* (2012). |
| Goldberg DW, Cockburn MG. The Effect of Administrative Boundaries and Geocoding Error on Cancer Rates in California. *Spatial and Spatio-Temporal Epidemiology* 3(1): 39-54 (2012). |
| Henry KA, Boscoe FP, Johnson CJ, Goldberg DW, Sherman R, Cockburn MG. Breast Cancer Stage at Diagnosis: Is Travel Time Important? *Journal of Community Health* 36(6): 933-942 (2011). |
| Goldberg DW. Improving Geocoding Match Rates with Spatially-Varying Block Metrics. *Transactions in GIS* 15(6): 827–848 (2011). |
| Boscoe FP, Johnson CJ, Henry KA, Goldberg DW, Shahabi K, Elkin EB, Ballas LK, Cockburn MG. Geographic Proximity to Treatment for Early Stage Breast Cancer and Likelihood of Mastectomy. *The Breast* 20(4): 324-328 (2011). |
| Cockburn MG, Mills P, Zhang X, Goldberg DW, Ritz B. Prostate cancer and ambient pesticide exposure in agriculturally intensive areas in California. *American Journal of Epidemiology* 173(11):1280-1288 (2011). |
| Goldberg DW, Cockburn MG. Improving Geocode Accuracy with Candidate Selection Criteria. *Transaction in GIS* 14(S1): 129-146 (2010). |
| Goldberg DW, Wilson JP, Knoblock CA. Extracting geographic Features from the internet to automatically build detailed regional gazetteers. *International Journal of Geographic Information Science* 23(1): 93-128 (2009). |
| Goldberg DW, Wilson JP, Knoblock CA, Ritz B, Cockburn MG. An effective and efficient approach for manually improving geocoded data. *International Journal of Health Geographics* 7(60) (2008). |
| Goldberg DW, Wilson JP, Knoblock CA. From Text to Geographic Coordinates: The Current State of Geocoding. *URISA Journal* 19(1): 33-46 (2007). |

## Books

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| Goldberg DW. *A Geocoding Best Practices Guide*. Springfield, IL, North American Association of Central Cancer Registries (2008). |

## Book Chapters

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| Goldberg DW. Geocoding for Location-Based Services. In Karimi, H (ed.), *Advances in Location-Based Computing and Services*. Second Edition. New York, NY. Taylor & Francis. In preparation. In press. |
| Goldberg DW, Cockburn MG, Naito AT. Spatial Overlays for Exposure Estimation. In Boscoe, FP (ed.), *Geographic Health Data: Fundamental Techniques for Analysis*. Wallingford, United Kingdom, CABI International Press. In press. |
| Goldberg DW, Jacquez GM, Mullan N. Geocoding In Health Science Research. In Boscoe, FP (ed.), *Geographic Health Data: Fundamental Techniques for Analysis*. Wallingford, UK, CABI International Press. In press. |
| Goldberg DW. Privacy and Security of Geospatial Information. In Warf B, Jankowski P, Solomon BD, Welford M (eds.), *Encyclopedia of Geography*. Thousand Oaks, CA, Sage Publications (2010). |
| Goldberg DW, Wilson JP, Knoblock CA. Exploring the Use of Gazetteers and Geocoders for the Analysis and Interpretation of a Dynamically Changing World.In Hornsby KS, Yuan M (eds.), *Understanding Dynamics of Geographic Domains*. Boca Raton, FL, CRC Press: 51-76 (2008). |

## Collections Edited

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| --- |
| Goldberg DW, Jacquez GM. Guest Editors. *Spatial and Spatio-Temporal Epidemiology Special Issue on Geocoding* 3(1): 1-92 (2012). |
| Goldberg DW. Guest Editor. *Transactions in GIS Special Issue on Geocoding* 15(6): 723-886 (2011). |

## Highly Selective Conference/Workshop Papers

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| Goldberg DW, Stroup AM. Dodging the Analysis Paralysis Pitfalls in CyberGIS. In *Proceedings of the GeoHCI Workshop at CHI 2013*, April 27–28, 2013, Paris, France (2013). (.44% acceptance rate) |

## Non-Refereed Journal Articles

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| Goldberg DW, Jacquez GM. Guest Editorial. Advances in Geocoding for the Health Sciences. *Spatial and Spatio-Temporal Epidemiology* 3(1): 1-5 (2012). |
| Goldberg DW. Guest Editorial. Advances in Geocoding Research and Practice. *Transactions in GIS* 15(6): 727-733 (2011) |
| Goldberg DW. Staying Disciplined during and Inter-Disciplinary Degree. *Crossroads, the ACM Student Journal* 16(2): 3-5 (2009). |
| Goldberg DW. State Considerations in Distributed Systems. *Crossroads, the ACM Student Journal* 15(3): 7-11 (2009). |

## Conference and Symposium Proceedings

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| Goldberg DW, Wilson JP, Cockburn MG. Toward Quantitative Geocode Accuracy Metrics. In *Proceedings of the Ninth International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences,* Leicester, UK: 329-332 (2010). |
| Goldberg DW, Curtis AC, Cockburn MG. Facilitating GIS Usage with Open-Source Web-Based API’s and Services. In *Proceedings of the Urban and Regional Information Systems Association GIS in Public Health Conference*, New Orleans, LA (2008). |
| Goldberg DW, Zhang X, Marusek JC, Wilson JP, Ritz B, Cockburn MG. Development of an Automated Pesticide Exposure Analyst for the California's Central Valley. In *Proceedings of the Urban and Regional Information Systems Association GIS in Public Health Conference*, New Orleans, LA: 136-156 (2007). |

## Technical Reports and Working Papers

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| Goldberg DW. *Texas Cancer Registry Deliverable #2 - TAMU Batch Geocoding Evaluation*. College Station, TX, TAMU GeoInnovation Center Technical Report #TAMU-GIC-2013-001 (2013). |
| Goldberg DW. *Texas Cancer Registry Deliverable #4 – Manual Review Report #1*. College Station, TX, TAMU GeoInnovation Center Technical Report #TAMU-GIC-2013-002 (2013). |
| Goldberg DW. *Texas Cancer Registry Deliverable #6 – Manual Review Report #2*. College Station, TX, TAMU GeoInnovation Center Technical Report #TAMU-GIC-2013-003 (2013). |
| Goldberg DW. *Texas Cancer Registry Deliverable #8 – Manual Review Report #3*. College Station, TX, TAMU GeoInnovation Center Technical Report #TAMU-GIC-2013-004 (2013). |
| Boyd J, Goldberg DW, Ballard M, Mullan N, Currell J. *Geocoding Health Data in West Australia Department of Health - An Evaluation of Desktop Geocoding Systems*. Perth, WA, Australia, Cooperative Research Center for Spatial Information (CRC-SI) Technical Report # (2013). |
| Goldberg DW. *Central Cancer Registry Geocoding Needs*. Los Angeles, CA, USC GIS Research Laboratory Technical Report No. 13 (2009). |
| Goldberg DW. *Address Standardization*. Los Angeles, CA, USC GIS Research Laboratory Technical Report No. 12 (2009). |
| Goldberg DW. *The USC WebGIS Open Source Geocoding Platform*. Los Angeles, CA, USC GIS Research Laboratory Technical Report No. 11 (2009). |
| Goldberg DW, Swift JN, Wilson JP. *Geocoding Best Practices: Review of Eight Commonly Used Geocoding Systems*. Los Angeles, CA, USC GIS Research Laboratory Technical Report No. 10 (2008). |
| Goldberg DW, Swift JN, Wilson JP. *Geocoding Best Practices: Analysis of Geocoding User Requirements*. Los Angeles, CA, USC GIS Research Laboratory Technical Report No. 9 (2008). |
| Goldberg DW, Swift JN, Wilson JP. *Geocoding Best Practices: Reference Data, Input Data, and Feature Matching*. Los Angeles, CA, USC GIS Research Laboratory Technical Report No. 8 (2008). |
| Swift JN, Ghaemi P, Goldberg DW, Wilson JP. *USC Digital Library Archive Prototype Geographic Search and Query Tools*. Los Angeles, CA, USC GIS Research Laboratory Technical Report No. 4 (2005). |
| Wilson JP, Goldberg DW, Lam CS. *The ArcGIS Coastal Sediment Analyst: A Prototype Decision Support Tool for Regional Sediment Management*. Los Angeles, CA, USC GIS Research Laboratory Technical Report No. 3 (2004). |

## Popular Press

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| Ramasubramanian L, Goldberg DW. GIS Adoption and Use on College Campuses: An End-of-Year Review and Look Ahead to 2012. *Directions Magazine*. *Directions Magazine* (2012). |
| Goldberg DW, Jacquez GM. Geocoding Comes to the Forefront: A report from the First International Geospatial Geocoding Conference (IGGC). *Directions Magazine* (2012). |
| Swift JN, Ghaemi P, Goldberg DW, Wilson JP. Prototype Geographic Search and Query Tools for a Library Digital Archive. *ArcUser Magazine* 9(2): 30-32 (2006). |

## Other Publications

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| Goldberg DW. Shortest Path Service To Launch Soon. *NAACCR Narrative Newsletter*. Fall (2011). http://www.naaccr.org/LinkClick.aspx?fileticket=PF1t2ryCDA4%3d&tabid=161&mid=523. |
| Goldberg DW, Sherman RL, Boscoe FP, Henry KA. Shortest Path Project Concludes. *NAACCR Narrative Newsletter*. Spring (2011). http://www.naaccr.org/LinkClick.aspx?fileticket=PsCF9a-mWxg%3d&tabid=161&mid=523. |
| Goldberg DW. Geospatial Services and the Need for Transparency within the NSF Cyberinfrastructure. Position paper in *The National Science Foundation TeraGrid Workshop on Cyber-GIS*, Washington, DC: http://www.cigi.illinois.edu/cybergis/participants.php (2010). |

## Conference, Symposium, and Webinar Presentations

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| Goldberg DW. *NAACCR Geocoding Services - First Year Reflections*. Annual Meeting of the North American Association of Central Cancer Registries, Austin, TX. June, 2013. |
| Goldberg DW. *HealthGIS - Future Visions*. Cooperative Research Center for Spatial Information (CRC-SI) HealthGIS Workshop. Perth, WA, Australia. May, 2013. |
| Goldberg DW. *Geocoding Research - Opportunities & Challenges in HealthGIS*. Cooperative Research Center for Spatial Information (CRC-SI) Geocoding in Health Workshop. Perth, WA, Australia. May, 2013. |
| Goldberg DW. *Sustainable Learning Networks Community (SLNC) – Platform Considerations for Sustainability Education Coordination (SEC)*. University Consortium for Geographic Information Science (UCGIS) SLNC Workshop. Fairfax, VA. May, 2013. |
| Goldberg DW. *Approaches to Confidentiality Protection in Geospatial Studies with Human Subjects*. Annual Meeting of the Association of American Geographers, Los Angeles, CA. April, 2013. |
| Goldberg DW. *The TAMU/NAACCR Geocoding Service*. Plenary Speaker, Annual Meeting of the North American Association of Central Cancer Registries, Portland, OR. June, 2012. |
| Goldberg DW, Whitley JF, Kosary C, May C. *Cancer Registry Geocoding Services Standardization*. Annual Meeting of the North American Association of Central Cancer Registries, Portland, OR. June, 2012. |
| Boscoe FP, Goldberg DW. *A Google Maps Mashup for Cancer Case Geocoding.* Annual Meeting of the North American Association of Central Cancer Registries, Portland, OR (2012). |
| Goldberg DW. *Closing Address and Awards.* First International Geospatial Geocoding Conference. Redlands, CA. December, 2011. |
| Goldberg DW. *Volunteered Geographic Information Breakout Session Report.* First International Geospatial Geocoding Conference. Redlands, CA. December, 2011. |
| Goldberg DW. *Welcome Address.* First International Geospatial Geocoding Conference. Redlands, CA. December, 2011. |
| Goldberg DW. *Come to Los Angeles for ACM SIGSPATIAL GIS 2012 – It’s better than you think*. 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Chicago, IL. November, 2011. |
| Goldberg DW, Sherman R, Boscoe FP, Johnson C, Henry K. *The USC/Komen/NAACCR Shortest Path Tool.* North American Association of Central Cancer Registries, Springfield, IL. June 2011. |
| Goldberg DW, Hodges HH, Cockburn MG. *The Effect of Administrative Boundaries and Geocoding Error on Cancer Rates*. Annual Meeting of the North American Association of Central Cancer Registries, Louisville, KY. June, 2011. |
| Henry KA, Boscoe FP, Johnson CJ, Goldberg DW. *Geographic Proximity to Treatment for Early Stage Breast Cancer and Likelihood of Mastectomy.* The 2011 Annual Retreat on Cancer Research in New Jersey. UMDNJ-Robert Wood Johnson Medical School Piscataway, NJ (2011). |
| Sedano L, Goldberg DW. *Geospatial Tools and Volunteered Information for Public Advocacy: The Los Angeles Billboard Project.* The Inaugural USC Los Angeles Geospatial Summit. University of Southern California, Los Angeles, CA (2011). |
| Sedano L, Goldberg DW. *The USC Billboard Map.* Scenic America Scenic Symposium, Los Angeles, CA (2011). |
| Goldberg DW. *Environmental Exposure Estimation with Spatially-Based Geocode Quality Metrics*. Annual Meeting of the Association of American Geographers, Seattle, WA (2011). |
| Shahabi K, Goldberg DW, Wilson JP. *Targeted Trojan Alerts: A Location-Based Evacuation Planning System.* Annual Meeting of the Association of American Geographers, Seattle, WA (2011). |
| Goldberg DW. *Targeted Trojan Alerts: Enabling Dynamic Location-Based Evacuation Strategies.* University of Southern California Integrated Media Systems Center Retreat,Los Angeles, CA (2011). |
| Goldberg DW. *VEGIST:* *A Virtual Enterprise GIS&T Platform For Connecting Research, Teaching &Implementation*. UCGIS Winter Meeting,Washington, DC (2011). |
| Goldberg DW. *Mapping and spatial analysis for human services/social work professionals*. University of Southern California Social Work GIS Day, Los Angeles, CA (2010). |
| Goldberg DW. *Toward Quantitative Geocode Accuracy Metrics*. The Ninth International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences,Leicester, UK (2010). |
| Goldberg DW. *The UCGIS-ESRI Virtual Enterprise Network Project*. University Consortium for Geographic Information Science Summer Meeting,Hilton Head, SC (2010). |
| Goldberg DW. *Improving Geocode Accuracy with Candidate Selection Criteria*. The 2010 ESRI International User Conference, San Diego, CA (2010). |
| Goldberg DW. *Approximate Geocoding using a Spatially-Varying Neighborhood Distance Metric*. Annual Meeting of the Association of American Geographers, Washington, DC (2010). |
| Goldberg DW. *Tools and Techniques for Temporal Data Integration*. University of Southern California Spatially-Enabled Real-Time Data Capture Working Group, Los Angeles, CA (2010). |
| Shahabi K, Goldberg DW. *The NAACCR Travel Time and Distance Calculator*. Annual Meeting of the North American Association of Central Cancer Registries, San Diego, CA (2009). |
| Goldberg DW. *A Framework for Evaluating Geocoding Research and Practice*. Annual Meeting of the Association of American Geographers, Las Vegas, NV (2009). |
| Goldberg DW. *Facilitating GIS Usage with Open-Source Web-Based API’s and Services*. Urban and Regional Information Systems Association GIS in Public Health Conference, New Orleans, LA (2008). |
| Goldberg DW, Wilson JP. *Enabling Dynamic Tools for Modeling, Analyzing, and Integrating Data in a Dynamically Changing World and Data Environment*. Annual Meeting of the Association of American Geographers, Boston, MA (2008). |
| Goldberg DW. *Open Source Web Tools for Manual Geocode Correction*. Annual Meeting of the North American Association of Central Cancer Registries, Denver, CO (2008). |
| Goldberg DW, Wilson JP, Cockburn MG. *Geocoding Best Practices, and Understanding, Analyzing, and Utilizing Spatial Error in Geocoding Process.* National Cancer Institute, Surveillance Epidemiology and End Results (SEER) Manager's and PI Meeting, Rockville, MD (2007). |
| Goldberg DW, Wilson JP, Cockburn MG. *Development of an Automated Pesticide Exposure Analyst for the California’s Central Valley*. Urban and Regional Information Systems Association GIS in Public Health Conference, New Orleans, LA (2007). |
| Goldberg DW. *A Mediator Based Method for Iterative Gazetteer Generation*. Annual Meeting of the Association of American Geographers, Specialty Group Honors Competition for Student Papers on GIS, San Francisco, CA (2007). |
| Goldberg DW. *Geocoding: Getting up to Speed*. Annual Meeting of the North American Association of Central Cancer Registries, Regina, Saskatchewan, Canada (2006). |
| Goldberg D.W. *A Geospatial Information Integration Approach to Building High Resolution Gazetteers*. 10th Annual IMSC Student Conference: Inventing the Future, University of Southern California, Los Angeles, CA (2006). |
| Goldberg DW. *Extracting Geographic Features from the Internet to Automatically Build Detailed Regional Gazetteers*. Electronic Cultural Atlas Initiative, 2nd Annual Cultural Congress, Shanghai, China (2005). |
| Goldberg DW, Wilson JP. *The ArcGIS Coastal Sediment Analyst: A decision support tool for Regional Sediment Management*. Headwaters to Ocean Conference (H2O) Conference, Huntington Beach, CA (2005). |

## Webinar & Online Lectures

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| Goldberg DW, Sherman R, Stinchcomb D. *NAACCR GIS Training Webinar – Census Data I*. North American Association of Central Cancer Registries. July, 2013. |
| Goldberg DW, Sherman R, Stinchcomb D. *NAACCR GIS Training Webinar – Census Data II*. North American Association of Central Cancer Registries. July, 2013. |
| Wilson JP, Kemp K, Goodchild MF, Wittner E, Goldberg DW. *Create Enduring Spatial Skills That Lead to Job Opportunities.* Directions Magazine. August, 2012. |
| Greninger M, Goldberg DW, Swift JN. *Introducing Los Angeles Regional Imagery Acquisition Consortium (LAR-IAC) Data.* Directions Magazine. April, 2012. |

## Panel Presentations and Demonstrations

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| Shahabi K, Goldberg DW, Wilson JP. *Real-Time Location-Dependent Evacuation Routing.* Poster at the University of Southern California Department of Computer Science Research Review, Los Angeles, CA (2011). |
| Shahabi K, Goldberg DW, Wilson JP. *Targeted Trojan Alerts: Enabling Dynamic Location-Based Evacuation Strategies.* Poster at the University of Southern California Integrated Media Systems Center Retreat,Los Angeles, CA (2011). |
| Goldberg DW. *Improving Geocode Accuracy with Candidate Selection Criteria*. Poster at the University of Southern California Department of Computer Science Research Review, Los Angeles, CA (2010). |
| Goldberg DW, Shahabi K. *Systems, Services, and Tools for the Creation and Analysis of Health-Related Spatial Data*. Demonstration at the Redlands GIS Week Space-Time Modeling and Analysis Workshop, Redlands, CA (2010). |

## Invited Panels, Lectures, Workshops, and Seminars

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| Invited Participant. Google Geo for Higher Ed Summit. Mountain View, CA. July, 2013. |
| Invited Presentation. “GIS for Health Analysis - Tools for Geo-Enabling Health Research”. Population-based Research Optimizing Screening through Personalized Regimens (PROSPR) Cervical Site Executive Committee Meeting. University of New Mexico, Albuquerque, New Mexico. July, 2013. |
| Invited Panelist. Cooperative Research Center for Spatial Information (CRC-SI) Roadshow. HealthGIS Panel. “Geocoding Research Workshop Report & Future Research Agenda”. Perth, WA, Australia. May, 2013. |
| Invited Presentation. “Characterizing the Landscape of Health Care Service Accessibility - Implications for Health Outcomes”. University of New Mexico Interdisciplinary HPV Prevention Center Colloquium Series. University of New Mexico, Albuquerque, New Mexico. May, 2013. |
| Invited Panelist. Association of American Geographers Annual Meeting. CyberGIS Symposium: Frontiers and Roadmaps - Academic Viewpoints. “CyberGIS – Infrastructures, Applications & Education”. Los Angeles, CA. April, 2013. |
| Invited Participant. Body of Knowledge 2.0 – Envisioning the Future. Los Angeles, CA. April, 2013. |
| Invited Presentation. “HealthGIS – Cyber-GIS Opportunities”. Vespucci Institute. Catalina Island, CA. April, 2013. |
| Keynote Address. “CyberGIS & GeoHealth Research - Opportunities & Challenges for GIScientists”. Texas Geography Student Research Symposium. Texas State University, San Marcos. TX. March, 2013. |
| Invited Presentation. “CyberGIS & GeoHealth Research - Data Quality & Research Infrastructures”. GeoHealth Roundatable. Gävle University, Gävle. Sweden. March, 2013. |
| Invited Seminar. “Geocomputation & Health Research and Opportunities”. Adventium Enterprises, Minneapolis, MN. February, 2013. |
| Invited Seminar. “HealthGIS Applications and Research Areas”. Geography Student Society, Texas A&M University, College Station, TX. October, 2012. |
| Invited Seminar. “Spatial Approaches to Reducing Uncertainty in Geocoded Information”. Department of Computer Science, Texas A&M University, College Station, TX. October, 2012. |
| Invited Seminar. “Geocoding Opportunities for Cancer Registries”. Texas Cancer Registry, Austin, TX. August, 2012. |
| Invited Seminar. “Spatial Approaches to Reducing Uncertainty in Geocoded Information”. Curtin University, Perth, Western Australia. July, 2012. |
| Invited Seminar. “Uncertainty in geocoded data and its effects on environmental health studies”. Spatial Month, Western Australia Department of Health, Perth, Western Australia. July, 2012. Available online at: <http://vimeo.com/47059671>. |
| Invited Seminar. “Uncertainty in geocoded data and its effects on environmental health studies”. Miller Medical School, University of Miami, Miami, FL. May, 2012. |
| Guest Lecture. “GIS in Social Services Research and Practice”. Applied Child Welfare Research Seminar Series, University of California, Los Angeles, Los Angeles, CA. May, 2012. |
| Invited Panelist. USC Social Work GIS Day, University of Southern California, Los Angeles, CA. “Mapping and spatial analysis for human services/social work professionals”. November, 2011. |
| Guest Lecture. “GIS in Social Services Research and Practice”. Applied Child Welfare Research Seminar Series, University of California, Los Angeles, Los Angeles, CA. October, 2011. |
| Invited Seminar. “Deriving Quantitative Spatial Error Metrics for Geocoded Data”. CCTS Biomedical Informatics Seminar Series, University of Kentucky, Lexington KY, Louisville, KY. June, 2011. |
| Invited Panelist. “Futures of Spatial Sciences Meeting”, University of Southern California Wrigley Institute for Environmental Studies, Two Harbors, Catalina Island. April, 2011. |
| Guest Lecture. University of Southern California, Department of Geography. GEOG-482L *Principles of Geographic Information Science*, “An Introduction to Geocoding”. March, 2011. |
| Guest Lecture. University of Southern California, Department of Computer Science. CSCI-599 *Geospatial Information Integration*, “Geocoding – Getting Up to Speed & Advanced Research Topics”. February, 2011. |
| Invited Panelist. UCGIS Winter Meeting, Washington, DC. “National Network of Regional GIS Nodes Panel and Discussion”. February, 2011. |
| Invited Panelist. USC Social Work GIS Day, University of Southern California, Los Angeles, CA. “Mapping and spatial analysis for human services/social work professionals”. November, 2010. |
| Guest Lecture. University of Southern California, Department of Geography. GEOG-482L *Principles of Geographic Information Science*, “Advanced Topics in Geocoding Research and Practice”. October, 2010. |
| Guest Lecture. University of Southern California, Department of Computer Science. CSCI-548 *Information Integration on the Web*, “Techniques for Error and Uncertainty Reduction in the Geocoding Process”. March, 2010. |
| Guest Lecture. University of Southern California, Department of Geography. GEOG-481 *Map Design and Analysis*, “An Introduction to Geocoding”. April, 2010. |
| Guest Lecture. University of Southern California, Department of Computer Science. CSCI-548 *Information Integration on the Web*, “Information Integration for Geocoding and Gazetteer Construction”. April, 2009. |
| Guest Lecture. University of Southern California, Department of Geography. GEOG-482 *Principles of Geographic Information Science*, “Geocoding Research and Development”. November, 2008. |
| Guest Lecture. University of Southern California, Department of Computer Science. CSCI-548 *Information Integration on the Web*, “An Introduction to XQuery”. March, 2006. |

# Funding activity

## Extramural Grants

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| Texas Department of State Health Services. “Geocoding Services Agreement”. PI; $287,449. Contract# 2013-043471. | 2013 – 2013 |
| National Cancer Institute. “New Mexico HPV Outcomes, Practice Effectiveness and Surveillance (NM-HOPES)”. Co-Investigator with Cosette Wheeler (PI), Department of Pathology, University of New Mexico; $1,123,772. Contract# 1U54CA164336-01. | 2013 – 2015 |
| Adventium Labs and US Navy. “Spatio-Temporal Extension And Analysis Framework (STEAF) – Phase I Option”. PI; $14,999. | 2012 – 2013 |
| Casey Family Programs Foundation. “A Spatial Analysis and Optimization of Los Angeles County Department of Child and Family Services Agency Funding”. PI; $21,552. | 2011 – 2012 |
| Centers for Disease Control and Prevention, National Center For Environmental Health. “First International Conference on Geocoding”. PI; $15,500. Contract# EH000793-01. | 2011 – 2012 |
| North American Association of Central Cancer Registries and National Cancer Institute. “NAACCR Open Access Geocoder”. PI; $44,604. | 2011 – 2012 |
| Adventium Labs and US Navy. “Spatio-Temporal Extension And Analysis Framework (STEAF)”. PI; $17,995. | 2011 – 2012 |
| North American Association of Central Cancer Registries and Susan G. Komen Breast Cancer Foundation. “Shortest Network Paths: New Algorithms and Applications - Project Wrap-up”. PI; $16,560. | 2010 – 2011 |
| National Cancer Institute. “USC WebGIS Open Source Geocoder Platform Extension”. Co-Investigator with John Wilson (PI), Department of Geography, University of Southern California; $110,000. Contract# N01-PC-35139. | 2009 – 2010 |
| National Cancer Institute. “Enhancing the utility of geocoding accuracy assessments: Understanding, Analyzing, and Utilizing Spatial Error in the Geocoding Process”. Co-Investigator with Myles Cockburn (PI), Department of Preventive Medicine, University of Southern California; $160,000. Contract# N01-PC-35139. | 2008 – 2010 |
| Northrop Grumman and Centers for Disease Control and Prevention. “Development and Testing of Geocoding Services for the Division of Cancer Prevention and Control”. Co-Investigator with John Wilson (PI), Department of Geography, University of Southern California; $60,000. | 2008 – 2009 |
| North American Association of Central Cancer Registries and Susan G. Komen Breast Cancer Foundation. “Shortest Network Paths: New Algorithms and Applications”. Co-Investigator with John Wilson (PI), Department of Geography, University of Southern California; $132,072. | 2007 – 2010 |

## Intramural Grants

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| Innovation Fund for Global Education Grants Program, Texas A&M University. “High Impact Experiences for Global Spatial Innovation”. PI; $5,000. | 2013 – 2014 |
| Classroom Instructional Technology Matching Grants Program, Texas A&M University. “TAMU WebGIS – Building a Realistic GIS Environment for Teaching and Learning”. PI; $9,429. | 2013 – 2014 |
| Developing Core Curriculum Courses Enhanced with Technology Program, Texas A&M University. “Geographic Information Science & Technology (GIST) for Introductory Human Geography Core Courses”. Co-PI with Wendy Jepson (PI), Department of Geography, Texas A&M University; $75,000. | 2013 – 2014 |
| Southern California Environmental Health Sciences Center Pilot Project Program, University of Southern California. “Traffic-Related Air Pollution Exposure Assessment with Spatially-Relevant Location Accuracy Metrics”. PI; $24,985. | 2011 – 2012 |
| Advancing Scholarship in the Humanities and Social Sciences Provost Research Fund, University of Southern California. “GeoTargeting Social Services – A Platform for Leveraging Spatial Analysis to Optimize the Efficacy of Social Service Planning and Delivery”. PI; $24,985. | 2011 – 2012 |

## Contracts

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| National Public Radio, Car Talk. “Business Information Processing”. PI; $7,550. | 2011 – 2012 |
| Maponics, Incorporated. “Provision of Batch Geocoding Services”. PI; $5,042. | 2011 – 2012 |
| Union Bank of California, N.A. “Provision of Batch Geocoding Services”. PI; $23,000. | 2010 – 2011 |
| California Cancer Registry. “Provision of Batch and Manual Geocoding Services”. PI; $20,000. | 2010 – 2011 |
| California Cancer Registry. “Provision of Batch and Manual Geocoding Services”. Co-Investigator with John Wilson (PI), Department of Geography, University of Southern California; $20,000. | 2009 – 2010 |
| Freedom Speaks. “USC WebGIS Customization”. PI; $2,000. | 2009 – 2010 |
| North American Association of Central Cancer Registries. “Geocoding Best Practices Document Phase II: Development of Geocoding Best Practices Document”. PI; $3,995.50. | 2007 – 2008 |
| Cartifact, Incorporated. “Cartifactory Revisions Agreement Phase II”. PI; $4,800. | 2007 – 2008 |
| North American Association of Central Cancer Registries. “Geocoding Best Practices Document Phase I: Consultant for NAACCR GIS Committee Meeting & Development of Annotated Outline”. PI; $1,933. | 2006 – 2007 |
| Cartifact, Incorporated. “Cartifactory Revisions Agreement Phase I”. PI; $4,800. | 2006 – 2007 |

## Gifts

|  |  |
| --- | --- |
| USC WebGIS. “Gifts resulting from the use of USC WebGIS Services”. PI; $19,085 | 2012 – Present |
| USC WebGIS. “Gifts resulting from the use of USC WebGIS Services”. PI; $25,918. | 2011 – 2012 |
| USC WebGIS. “Gifts resulting from the use of USC WebGIS Services”. PI; $30,116. | 2010 – 2011 |
| USC WebGIS. “Gifts resulting from the use of USC WebGIS Services”. PI; $12,751. | 2009 – 2010 |

# Teaching

## Semester Courses

Texas A&M University

Fall 2012

|  |  |
| --- | --- |
|  | GEOG 390: Principles of Geographic Information Science |
|  | GEOG 660: Applications in Geographic Information Science |

Spring 2013

|  |  |
| --- | --- |
|  | GEOG 390: Principles of Geographic Information Science |
|  | GEOG 660: Applications in Geographic Information Science |
|  | GEOG 665: GIS-Based Spatial Analysis and Modeling |

Fall 2013

|  |  |
| --- | --- |
|  | GEOG 489: Special Topics in GIS Programming |
|  | GEOG 660: Applications in Geographic Information Science |
|  | GEOG 689: Special Topics in GIS Application Development |

University of Southern California

Spring 2011

|  |  |
| --- | --- |
|  | GEOG 586: GIS Customization and Programming |

Summer 2011

|  |  |
| --- | --- |
|  | GEOG 582: Spatial Databases |

Spring 2012

|  |  |
| --- | --- |
|  | GEOG 586: GIS Customization and Programming |

## Short Courses and Workshops

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| --- | --- |
| *Applied Geocoding for Cancer Registries*. One day workshop at the Annual Meeting of the North American Association of Central Cancer Registries, Austin, TX (Co-Instructor with Kevin Henry and Recinda Sherman) | 2013 |
| *Hands-On Geocoding for Cancer Registries*. One day workshop at the Annual Meeting of the North American Association of Central Cancer Registries, Portland, OR (Co-Instructor with Kevin Henry and Recinda Sherman) | 2012 |
| *ArcGIS Essentials Short Course*. One and a half day course offered monthly. University of Southern California, Los Angeles, CA (Co-instructor with Maryam Taher) | 2010 – 2012 |
| *Geocoding Basics and Beyond: Applied Geocoding for Public Health*. One day workshop at the Centers for Disease Control and Prevention GeoSWG Geography Awareness Week 2011 Workshop, Atlanta, GA (Co-Instructor with Kevin Henry and Recinda Sherman) | 2011 |
| *Geocoding Basics and Beyond: Applied Geocoding for Cancer Registries*. One day workshop at the Annual Meeting of the North American Association of Central Cancer Registries, Louisville, KY (Co-Instructor with Kevin Henry and Recinda Sherman) | 2011 |
| *Geocoding Best Practices Document Phase I: Development of an Annotated Outline*. One-day workshop offered at the North American Association of Central Cancer Registries Annual Meeting, Regina, Canada (Workshop Facilitator) | 2006 |

# Academic Advisees

## Doctoral Students

|  |  |
| --- | --- |
| Yolanda Mcdonald. Texas A&M University, Doctoral Candidate in Geography. Committee Member. | 2012 – Present |
| Xin Ma. Texas A&M University, Doctoral Candidate Industrial and Systems Engineering. Committee Member. | 2012 – Present |
| Deborah Vollmer Dahlke. Texas A&M University, Doctoral Candidate Health Promotion & Community Health Sciences. Committee Member. | 2012 – Present |

## Masters Students

|  |  |
| --- | --- |
| Ashish Agrawal. Texas A&M University, Masters of Science in Computer Science & Engineering. Committee Member. | 2013 – Present |
| Zhongxia Li. Texas A&M University, Masters of Science in Geography. Committee Chair. | 2012 – Present |
| Christopher Garza. Texas A&M University, Masters of Science in Ecosystems Science and Management. Committee Member. | 2012 – Present |
| Christopher Mederia. Texas A&M University, Masters of Science Geography. Committee Member. | 2012 – Present |
| Michael Wahl. University of Southern California, Masters of Science in Geographic Information Science and Technology. Committee Member. | 2012 – 2012 |
| Matt Davis. University of Southern California, Masters of Science in Geographic Information Science and Technology. Committee Member. | 2011 – 2012 |
| Ronald Lehman. University of Southern California, Masters of Science in Geographic Information Science and Technology. Committee Member. | 2010 – 2011 |

# research assistants and student technicians Employed

## Doctoral Students

|  |  |
| --- | --- |
| Andrew Evans. Texas A&M University, Doctoral Student, Geography. Graduate Student Technician. | 2013 – Present |
| Patrick Barrineau. Texas A&M University, Doctoral Student, Geography. Graduate Student Technician. | 2013 |
| Billy Hales. Texas A&M University, Doctoral Student, Geography. Graduate Student Technician. | 2013 |
| Jeremy Johnson. Texas A&M University, Doctoral Candidate, Geography. Graduate Student Technician. | 2013 |
| Manoj Prasad. Texas A&M University, Doctoral Candidate, Computer Science. Graduate Student Technician. | 2013 |
| Laiyin Zhu. Texas A&M University, Doctoral Candidate, Geography. Graduate Student Technician. | 2013 |
| Kaveh Shahabi. University of Southern California, Doctoral Candidate, Computer Science. Graduate Research Assistant. | 2010 – 2012 |

## Masters Students

|  |  |
| --- | --- |
| Zhongxia Li. Texas A&M University, Masters of Science, Geography. Graduate Research Assistant. | 2013 – Present |
| Ellen Gass. Texas A&M University, Masters of Science, Geography. Graduate Student Technician. | 2013 |
| Tiffany Hall. Texas A&M University, Masters of Science, Geography. Graduate Student Technician. | 2013 |
| Jarom Randall. Texas A&M University, Masters of Science, Geography. Graduate Student Technician. | 2013 |
| Deepthi Velisetti. Texas A&M University, Masters of Science, Computer Science. Graduate Student Technician. | 2012 – 2013 |
| Vijay Gumudavelly. Texas A&M University, Masters of Science, Computer Science. Graduate Student Technician. | 2012 – 2013 |
| Ge Gou. Texas A&M University, Masters of Science, Industrial & Systems Engineering. Graduate Research Assistant. | 2012 – 2013 |

## Undergraduate Students

|  |  |
| --- | --- |
| Robert Carmody. Texas A&M University, Bachelor of Science, Geography (GIS Option). Undergraduate Student Technician. | 2013 – Present |
| Adrienne Donaldson. Texas A&M University, Bachelor of Science, Environmental Studies. Undergraduate Student Technician. | 2013 – Present |
| Aaron Harmon. Texas A&M University, Bachelor of Science, Geography. Undergraduate Student Technician. | 2013 – Present |
| Alec Kelly. Texas A&M University, Bachelor of Science, Geography (GIS Option). Undergraduate Student Technician. | 2013 – Present |
| Caitlyn Armstrong. Texas A&M University, Bachelor of Science, Environmental Studies. Undergraduate Student Technician. | 2013 |
| Rachel Evans. Texas A&M University, Bachelor of Science, Environmental Studies. Undergraduate Student Technician. | 2013 |
| Marissa Garza. Texas A&M University, Bachelor of Science, Environmental Geoscience. Undergraduate Student Technician. | 2013 |
| Margarita Guerrero. Texas A&M University, Bachelor of Science, Geography (GIS Minor). Undergraduate Student Technician. | 2013 |
| Nicholas Kiker. Texas A&M University, Bachelor of Science, Environmental Geoscience. Undergraduate Student Technician. | 2013 |
| Morgan Kraft. Texas A&M University, Bachelor of Science, Environmental Geoscience. Undergraduate Student Technician. | 2013 |
| Baldridge, Payton L. Texas A&M University, Bachelor of Science, Geography (GIS Option). Undergraduate Student Technician. | 2012 – Present |
| Michael Schwind (GIS Option). Texas A&M University, Bachelor of Science, Geography. Undergraduate Student Technician. | 2012 – Present |
| Forrest Chevaillier. Texas A&M University, Bachelor of Science, Environmental Studies. Undergraduate Student Technician. | 2012 – Present |
| Kelsi Davis. Texas A&M University, Bachelor of Science, Environmental Geosciences. Undergraduate Student Technician. | 2012 – Present |
| Nicholas Barber. Texas A&M University, Bachelor of Science, Geography. Undergraduate Student Technician. | 2012 – 2013 |
| Winston Kahn. University of Southern California, Bachelor of Arts, Architecture. Undergraduate Research Assistant. | 2011 – 2012 |
| Tracey Auer. University of Southern California, Bachelor of Arts, Economics. Undergraduate Research Assistant. | 2010 – 2012 |

# Professional Staff Employed or Supported

## Research Staff

|  |  |
| --- | --- |
| Hilary Cooksley. Bachelor of Science, Geography (GIS Option), Texas A&M University, 2012. Research Assistant, Full time. | 2012 – Present |
| Maryam Taher. Master of Science in GIS and Remote Sensing, University of New South Wales. Project Specialist, Full time. | 2010 – 2012 |

# Professional Service

## International

|  |  |
| --- | --- |
| Workshop Co-Chair, HealthGIS 2013, Second ACM SIGSPATIAL International Workshop on the use of GIS in Public Health. Workshop at the 21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems. Orlando, Fl. | 2013 – Present |
| Esri Development Center Training Course Coordinator, Migrating to ArcGIS 10.1. College Station, TX. | 2013 – Present |
| Workshop Co-Chair, Applied Geocoding for Cancer Registries, Annual Meeting of the North American Association of Central Cancer Registries, Austin, TX | 2013 |
| Texas A&M University Representative, Willis Research Network | 2012 – Present |
| Global Spatial Networks Liaison, University Consortium for Geographic Information Science. | 2012 – Present |
| Program Committee Member, North American Association of Central Cancer Registries Annual Meeting. Austin, TX. | 2012 – 2013 |
| Program Committee, Cooperative Research Center For Spatial Information (CRC-SI) Roadshow. Perth, WA, Australia. | 2012 – 2013 |
| Workshop Co-Chair, Cooperative Research Center For Spatial Information (CRC-SI) Workshop of Geocoding in Australia. Perth, WA, Australia. | 2012 – 2013 |
| Member, Cooperative Research Center for Spatial Information (CRC-SI) HealthGIS Program. Perth, Western Australia. | 2012 – Present |
| Workshop Co-Chair, HealthGIS 2012, First ACM SIGSPATIAL International Workshop on the use of GIS in Public Health. Workshop at the 20th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems. Redondo Beach, CA. | 2012 |
| Workshop Co-Chair, Hands-On Geocoding for Cancer Registries, Annual Meeting of the North American Association of Central Cancer Registries. Portland, OR. | 2012 |
| Member, National Institutes of Health Early Career Reviewer Program | 2012 – Present |
| Local Organizing Chair, 20th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems. Redondo Beach, CA. | 2011 – 2012 |
| Member, Board of Directors, University Consortium for Geographic Information Science. | 2011 – Present |
| Student Paper Competition Judge, Geographic Information System Committee, North American Association of Central Cancer Registries. | 2011 – Present |
| Participant, University Consortium for Geographic Information Science Geospatial Extension Program Workshop 2. Washington, DC. | 2011 |
| Participant, University Consortium for Geographic Information Science Geospatial Extension Program Workshop 1. Washington, DC. | 2011 |
| Environmental Science Grand Award Judge, Intel International Science and Engineering Fair, Society for Science and the Public. Los Angeles, CA. | 2011 |
| Paper Session Chair – Challenges and Opportunities for Online, Media and Imprecise Textual Geocoding, First International Geospatial Geocoding Conference. Redlands, CA. | 2011 |
| Paper Session Chair – Quality Measures and Impacts, First International Geospatial Geocoding Conference. Redlands, CA. | 2011 |
| Paper Session Chair – Geocoding in Health Science, First International Geospatial Geocoding Conference. Redlands, CA. | 2011 |
| Breakout Session Chair – Volunteered Geographic Information, First International Geospatial Geocoding Conference. Redlands, CA. | 2011 |
| Workshop Co-Chair, Geocoding Basics and Beyond: Applied Geocoding for Cancer Registries, Annual Meeting of the North American Association of Central Cancer Registries. Louisville, KY. | 2011 |
| Workshop Co-Chair, Geocoding Basics and Beyond: Applied Geocoding for Cancer Registries, Centers for Disease Control and Prevention GeoSWG Geography Awareness Week 2011 Workshop. Atlanta, GA. | 2011 |
| Conference Organizer and Chair, First International Geospatial Geocoding Conference. Redlands, CA. | 2010 – 2011 |
| Vice Chair, Geographic Information System Committee, North American Association of Central Cancer Registries. | 2010 – 2012 |
| University Delegate, University Consortium for Geographic Information Science. | 2010 – 2012 |
| Student Paper Competition Judge, Geographic Information System Committee, North American Association of Central Cancer Registries. | 2010 |
| Program Committee Member, Knowledge Engineering, Discovery and Dissemination in Health (KEDDH) Workshop at IEEE International Conference on Bioinformatics & Biomedicine (BIBM-10). | 2010 |
| Workshop Reviewer, Addressing Workshop, Urban and Regional Information Systems Association Annual Conference. | 2010 |
| Member, Geographic Information System Committee, North American Association of Central Cancer Registries. | 2008 – Present |
| Associate Editor, *ACM Crossroads: The Student Journal of the Association for Computing Machinery*, Association for Computational Machinery. | 2006 – 2010 |
| Workshop Facilitator, “Geocoding Best Practices Document Phase I: Development of Annotated Outline”, North American Association of Central Cancer Registries Annual Meeting, Regina, Canada. | 2006 |

## National

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| --- | --- |
| Vice Chair, Association of American Geographers Geographic Information Systems and Science Specialty Group. | 2013 – Present |
| Session Chair, *Aging, Health and Access to Services*. Annual Meeting of the Association of American Geographers. Los Angeles, CA. | 2013 |
| Student Paper Competition Judge, Association of American Geographers Geographic Information Systems and Science Specialty Group. | 2011 – Present |
| Student Illustrated Paper Competition Judge, Association of American Geographers Geographic Information Systems and Science Specialty Group. | 2011 – 2013 |
| Academic Councilor, Association of American Geographers Geographic Information Systems and Science Specialty Group. | 2011 – 2013 |
| Conference Organizer, *The Inaugural USC Los Angeles Geospatial Summit*. University of Southern California, Los Angeles, CA. | 2011 |

## State

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| Advisory Council Member, Central Texas GIS Users Group (CenTexGIS). | 2012 – Present |
| Advisory Council Member, Texas Cancer Registry. | 2012 – Present |

## University

|  |  |
| --- | --- |
| Texas A&M GIS User Group Faculty Coordinator. Texas A&M University, College Station, TX. | 2013 – Present |
| Texas A&M Esri Site License Coordination Committee. Texas A&M University, College Station, TX. | 2013 – Present |
| Texas A&M Esri ArcGIS Online Campus Coordinator. Texas A&M University, College Station, TX. | 2013 – Present |
| GIS Day 2013 Organizing Committee, Co-Chair. Texas A&M University, College Station, TX. | 2013 – Present |
| Texas A&M Esri Development Center Coordinator. Texas A&M University, College Station, TX. | 2013 – Present |
| Texas A&M Esri Development Center Student of the Year Competition Organizer. Texas A&M University, College Station, TX. | 2013 – Present |
| Geographic Information Science & Technology Curriculum Committee. Texas A&M University, College Station, TX. | 2012 – Present |
| College of Geosciences Information Technology Hiring Committee. Texas A&M University, College Station, TX. | 2012 – 2013 |
| Texas A&M North American Association of Central Cancer Registries (NAACCR) Membership Application Preparation. Texas A&M University, College Station, TX. | 2012 – 2013 |
| Texas A&M Esri Development Center (EDC) Membership Application Preparation. Texas A&M University, College Station, TX. | 2012 – 2013 |
| Texas A&M University Consortium for Geographic Information Science (UCGIS) Membership Application Preparation. Texas A&M University, College Station, TX. | 2012 – 2013 |
| Department of Geography Human Environment Vision Committee. Texas A&M University, College Station, TX. | 2012 – 2013 |
| Department Representative, Freshman Convocation. Texas A&M University, College Station, TX. | 2012 – 2012 |
| GIS Day 2012 Organizing Committee, Co-Chair. Texas A&M University, College Station, TX. | 2012 – 2012 |
| Coordinator, Spatial Sciences Institute Monthly Research Lunches. University of Southern California, Los Angeles, CA. | 2011 – 2012 |
| Instructor, Southern California Earthquake Center Undergraduate Studies in Earthquake Information Technology. University of Southern California, Los Angeles, CA. | 2011 – 2011 |
| Curriculum Development, GEOG 582: Spatial Databases. University of Southern California, Los Angeles, CA. | 2011 |
| Curriculum Development, GEOG 586: GIS Customization and Programming. University of Southern California, Los Angeles, CA. | 2011 |
| Member, Southern California Environmental Health Sciences Center Career Development Group. University of Southern California, Los Angeles, CA. | 2010 – 2012 |
| Developer and Webmaster, University of Southern California Spatial Sciences Website – https://spatial.usc.edu. University of Southern California, Los Angeles, CA. | 2010 – 2012 |
| Instructor, ArcGIS Essentials Short Course. University of Southern California, Los Angeles, CA. | 2010 – 2012 |
| Member, STEM Consortium. University of Southern California, Los Angeles, CA. | 2010 – 2011 |
| Curriculum Developer, ArcGIS Essentials Short Course. University of Southern California, Los Angeles, CA. | 2010 |
| Faculty Evaluation Review Committee. University of Southern California, Los Angeles, CA. | 2010 |
| Developer and Webmaster, University of Southern California WebGIS Website – https://webgis.usc.edu. University of Southern California, Los Angeles, CA. | 2009 – 2012 |
| Member, Spatially-Enabled Real-Time Data Capture Working Group. University of Southern California, Los Angeles, CA. | 2009 |

## Other Volunteer & Service Activities

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| --- | --- |
| Volunteer Diver, California Science Center Aquarium. University of Southern California, Los Angeles, CA. | 2011 – 2012 |

# Conference Sponsorship

## International

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| Workshop Sponsor, 2013 Cooperative Research Center For Spatial Information (CRC-SI) Workshop of Geocoding in Australia. Perth, WA, Australia. | 2012 – 2013 |

# Editorial board memberships

## Academic Journals

|  |  |
| --- | --- |
| Journal of Geoinformatics & Geostatistics | 2012 – Present |

# Manuscript Reviews

## Academic Journals

|  |  |
| --- | --- |
| Applied Geography | 2012 – Present |
| Canadian Geographer | 2012 – Present |
| Cancer | 2013 – Present |
| GeoInformatica | 2012 – Present |
| Geomatica | 2012 – Present |
| International Journal of Health Geographics | 2007 – Present |
| International Journal of Geographic Information Science | 2007 – Present |
| Municipal Engineer | 2013 – Present |
| PLoS ONE | 2013 – Present |
| Transactions in GIS | 2006 – Present |

## Academic Conferences

|  |  |
| --- | --- |
| First International Geospatial Geocoding Conference. | 2010 – 2011 |
| Knowledge Engineering, Discovery and Dissemination in Health Workshop at IEEE International Conference on Bioinformatics & Biomedicine | 2010 |
| 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems | 2009 |

# Book & Book Proposal Reviews

## Academic Presses

|  |  |
| --- | --- |
| Sage Publications | 2013 – Present |

# Professional Society Memberships

American Association for Artificial Intelligence

American Association for the Advancement of Science

Association of American Geographers

Association for Computing Machinery

Institute of Electrical & Electronics Engineers

North American Association of Central Cancer Registries

University Consortium for Geographic Information Science

Urban and Regional Information Systems Association

# Software Systems Developed

|  |
| --- |
| Texas A&M GIS-Based Residential Ambient Pesticide Exposure System (GRAPES). |
| Texas A&M GeoServices Platform. Available online at https://geoservices.tamu.edu. |

# Websites Developed & MAINTAINED

|  |  |
| --- | --- |
| Texas A&M GeoInnovation Center Website. Available online at <http://geoinnovation.tamu.edu>. | 2013 – Present |
| Texas A&M HealthGIS Website. Available online at <http://healthgis.tamu.edu>. | 2013 – Present |
| Texas A&M GeoData Website. Available online at <http://geodata.tamu.edu>. | 2013 – Present |
| Texas A&M GeoGrants Website. Available online at <http://geogrants.tamu.edu>. | 2013 – Present |
| Texas A&M Esri Development Center Website. Available online at <http://edc.tamu.edu>. | 2013 – Present |
| Texas A&M GIS Facebook Page. Available online at <https://www.facebook.com/GISTAMU>. | 2013 – Present |
| Texas A&M GeoServices Facebook Page. Available online at <https://www.facebook.com/TAMUGeoServices>. | 2013 – Present |
| Texas A&M GeoServices Website. Available online at <https://geoservices.tamu.edu>. | 2012 – Present |