

DIANA MITSOVA, Ph.D.

Associate Professor
School of Urban & Regional Planning
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Employment History

Associate Professor and Director, Visual Planning Technology Lab, School of Urban and Regional Planning, Florida Atlantic University (from 1/2016)
Associate Professor, School of Urban & Regional Planning, Florida Atlantic University (from 5/2014)
Assistant Professor, School of Urban & Regional Planning, Florida Atlantic University (8/2008-5 /2014)
Program Director I / Research Analyst, State of Indiana, Indianapolis (7/2003-6/2004)
Graduate Research Assistant, Center for Urban Policy and the Environment, Indianapolis (8/2001-5/2003)

Education

Doctor of Philosophy (Regional Development Planning), School of Planning, University of Cincinnati, 2008.
Masters of Public Affairs, School of Public and Environmental Affairs (SPEA), Indiana University-Purdue University Indianapolis, 2003 (concentration: environmental planning and policy analysis)

Scholarship/ Research/ Creative Activity

Peer-Refereed Publications

ARTICLES

Bloetscher, F., Polsky, C. Bolter, K., **Mitsova, D.**, Palbicke Garces, K., King, R., Cosio-Carballo, I., Hamilton, K. 2016. Assessing Potential Impacts of Sea Level Rise on Public Health and Vulnerable Populations in Southeast Florida and Providing a Framework to Improve Outcomes. *Sustainability*, 8(4), 315; doi:10.3390/su8040315.

*Alhawiti, R., **Mitsova, D.** 2016. Using LANDSAT-8 data to explore the relationship between urban heat island and urban land uses. *International Journal of Research in Engineering and Technology*, 5(3), 457-466.

*Mulcan, A., **Mitsova, D.**, Hindle, T., Hanson, H., Coley, C. 2015. Marine Benthic Habitats and Seabed Suitability Mapping for Potential Ocean Current Energy Siting Offshore Southeast Florida, *Journal of Marine Science and Engineering*, 3, 276-298; doi:10.3390/jmse3020276.

***Mitsova, D.** 2014. Coupling Land Use Change Modeling with Climate Projections to Estimate Seasonal Variability in Runoff from an Urbanizing Catchment Near Cincinnati, Ohio *ISPRS International Journal of Geo-Information*, 3, 1256-1277.

- *Mokadi, E., D. **Mitsova**, and X. Wang. 2013. Projecting the Impact of a Proposed Streetcar Alignment on Urban Core Land Redevelopment – the Case of Cincinnati, Ohio, *Cities: The International Journal of Urban Policy and Planning*, 35, 136-146.
- ***Mitsova**, D., F. Wissinger, A-M Esnard, R. Shankar, and P. Gies. 2013. A Collaborative Geospatial Shoreline Inventory Tool to Guide Coastal Development and Habitat Conservation. *ISPRS International Journal of Geo-Information*, 2, 385-404.
- *Labiosa, W.B., W.M. Forney, A-M. Esnard, D. **Mitsova**, R. Bernknopf, P. Hearn, D. Hogan, L. Pearlstine, D. Strong, H. Gladwin, and E. Swain. 2013. The South Florida Ecosystem Portfolio Model: An Integrated Multi-criteria Scenario Evaluation Web Tool for Participatory Land-Use Planning in the Face of Sea Level Rise, *Journal of Environmental Modeling and Software*, 41: 210-222, (<http://dx.doi.org/10.1016/j.envsoft.2012.10.012>).
- Mitsova**, D. and A.M. Esnard. 2012. Holding Back the Sea: An Overview of Shore Zone Management and Research Needs. *Journal of Planning Literature*, 27(4): 446 - 459.
- ***Mitsova**, D., A.M. Esnard, and Y. Li. 2012. Using Enhanced Dasyetric Mapping Techniques to Improve the Spatial Accuracy of Sea Level Rise Vulnerability Assessments, *Journal of Coastal Conservation: Planning and Management*, 16(3): 355-372.
- ***Mitsova**, D., J. Vos, P. Gardinali, and I. Stafeychuk. 2011. Variability in Road Runoff Pollution by Polycyclic Aromatic Hydrocarbons (PAHs) in the Urbanized Area Adjacent to Biscayne Bay, Florida, *Journal of Environmental Protection*, 2(10): 1317-1330.
- *Esnard, A.M., A. Sapat, and D. **Mitsova**. 2011. An Index of Relative Displacement Vulnerability to Hurricanes. *Natural Hazards*, 59(2): 833-859.
- ***Mitsova**, D., W. Shuster, and X. Wang. 2011. A Cellular Automata Model of Land Cover Change to Integrate Urban Growth with Open Space Conservation. *Landscape and Urban Planning*, 99(2): 141-153.
- ***Mitsova**, D. and X. Wang. 2010. A GIS-based Technique for Linking Landscape Characteristics to Nitrogen Export Potential: Implications for Contributing Areas Management, *Journal of Environmental Planning and Management*, 53(7): 863-882.
- *Oner, A.C., D. **Mitsova**, D. Prosperi and J. Vos. 2010. Knowledge Globalization in Urban Studies and Planning: A Network Analysis of International Co-authorships, *Journal of Knowledge Globalization*, 3(1): 1-29, posted also at <http://www.lboro.ac.uk/gawc/rb/rb374.html>.
- ***Mitsova**-Boneva, D. and X. Wang. 2007. Exploring the Variability in Suspended Sediment Yield using BASINS-HSPF and Probabilistic Modeling: Implications for Land Use Planning. *Journal of Environmental Informatics* 9(1): 29-40.

BOOKS

GIS Applications in Climate Adaptation Planning, under contract with CRC Press, Taylor & Francis, due January 30, 2017.

BOOK CHAPTERS

Mitsova, D., C. Polsky, F. Bloetscher, J. Huntington. 2016. Climate Change and Extreme Events: How Health Disparities and Climate Governance Shape the Geography of Public Health Emergencies. In: *Environmental Governance Handbook*, edited by A. Sapat.

OTHER (applied research reports, book reviews, encyclopedia articles)

Mitsova, D. 2016. Suitability Analysis for Living Shorelines Development in Southeast Florida's Estuarine Systems, Technical Report submitted to The Nature Conservancy under grant contract #AWD-000813.

Palbicke Garces, K., F. Bloetscher, **D. Mitsova**, K. Chung-Bridges, K. Hamilton and K. Bolter. 2016. Health and Sea Level Rise: Impacts on South Florida, Final Report available at <http://flhealthinnovation.org/sea-level-rise-mapping/> (a project funded by Kresge Foundation, grant number 248118).

Koch-Rose, M.S. (Lead), **D. Mitsova** (Lead co-author), T. Root (Lead co-author), J. Restrepo, L. Berry, F. Bloetscher, R. Teegavarapu, J. Vos, N. Hammer. 2011. Florida Water Management and Adaptation in the Face of Climate Change. A White Paper prepared for SUS funded research "A SUS Climate Change Task Force: Science addressing the needs of Florida Agencies, Industry, and Citizenry," in partnership with UF and FSU. Available at <http://floridaclimate.org/whitepapers/>

Mitsova-Boneva, D. 2007. Book Review for the *Journal of Urban Affairs* 29(5): 544-546, for Erie, Steven P. *Beyond Chinatown: The Metropolitan Water District, Growth, and the Environment in Southern California* (Stanford University Press, 2006), available at <http://www.blackwell-synergy.com/toc/juaf/29/5>.

Mitsova-Boneva, D. 2005. Book review. Craswell, Gail. *Writing for Academic Success: A Postgraduate Guide* (London: SAGE Publications, 2005), in *Education Review* (August 2005), available at <http://edrev.asu.edu/brief/index.html>.

Works currently under review/ preparation

Mitsova, D., C. Bergh, G. Guannel, C. Lustic, M. Renda, J. Byrne, A. Graves, S. Reed, R. Alhawiti, K. Cresswell, and A. Goldberg. Spatial Decision Analysis of Nature-Based Shoreline Stabilization Options in South Florida's Estuarine Environments, *Journal of Environmental Planning and Management* (under review).

Mitsova, D., F. McAfee, R. Shankar. Authentic Learning across Disciplines: Developing Mobile Applications for Coastal Conservation Planning and Sustainability, *Planning Practice and Research* (under review).

Wissinger, F., R. Shankar, and **D. Mitsova**. General Abstraction Modeling (GAM) Methodology for Integrative Hydrological Systems Modeling, *Journal of Environmental Informatics* (under review).

Refereed Presentations and Proceedings

International:

Masser, Alexander, Alan E. Alvarez, David C. Prosperi, Diana **Mitsova**. 2012. Comparing Metropolitan Governance in Germany and the US: A Social Network Analysis. CD Proceedings, 17th REAL CORP Conference, "Re-Mixing the City", May 14 – 16, 2012, Schwechat, Austria, 141-150, Available at http://www.corp.at/archive/CORP2012_82.pdf.

Mitsova, D., Vos, J. and Stafeychuk, I. 2011. Seasonal variability in PAHs concentrations in urban runoff discharged to the Biscayne National Park and Aquatic Preserve, Proceedings of the 3rd Biennial Subtropical Cities Conference, March 8-11, 2011, Fort Lauderdale, FL. [Resulted in a journal article in the *Journal of Environmental Protection*]

Mokadi, E., D. **Mitsova** and X. Wang. 2011. Modeling urban land use changes in respect to future establishment of an urban rail transit system: The case of Cincinnati (OH) and its proposed streetcar system. Presented at the 12th *International Conference on Computers in Urban Planning and Urban Management*, July 5-8, 2011, Lake Louise, Alberta, Canada. [Resulted in a journal article in *Cities* (Elsevier)].

Oner, C. and D. **Mitsova**. 2009. *Academic Globalization: Implications for Planning and Governance of World Cities*. Conference on Knowledge Globalization, Boston, April 18, 2009. [Resulted in a journal article in the *Journal of Knowledge Globalization*].

Mitsova, D. and Wang, X. 2008. *Integrating a Cellular Model of Land Cover Change with a Non-point Source Nutrient Loading Model*. ACSP-AESOP 4th Joint Congress, July 6-11, 2008, Chicago, Illinois.

National:

D. Mitsova, A. Sapat, A-M Esnard. Modeling and Path Diagrams for Understanding Critical Infrastructure Interdependencies and Cascading Effects from Disasters, presented at the 56th *Annual Conference of the Association of the Collegiate Schools of Planning*, November 3-6, 2016, Portland, Oregon.

National Workshop on Resilience Research (NWRR) for Critical Infrastructure: Current Status and Challenges, National Science Foundation, October 22-23, 2015, Washington, DC. Poster presentation for the NSF CRISP Grant (P. Bocchini, D. Mitsova, B. Davison, L. Snyder, R. Sause, A. Lamadrid, A. Sapat, and A-M Esnard).

Mitsova, D., R. Shankar, F. McAfee. 2015. Mobile GIS Applications for Coastal Planning. Association for Environmental Studies and Sciences (AESS), 2015 Annual Conference - "Confronting Frontiers, Borders and Boundaries," June 24-27, San Diego, California.

Donate, K., Shankar, R., D. Mitsova, F. McAfee. 2015. The Semantic Web: Searching the Worldwide Web, Finding the Right Information the First Time. *ASEE 122nd Annual Conference & Exposition*, June 14-17, 2015, Seattle, WA. (peer-reviewed)

Shankar, R., **D. Mitsova**, F.X. McAfee, and M. Harris. 2014. Mentor and Mentee Pipeline in Smart Phone App Development, *2014 Annual Mentoring Conference* (peer-reviewed), University of New Mexico, October 21-24, Albuquerque, New Mexico. (peer-reviewed)

Mitsova, D. 2012. Integrating Urban Growth Model with Climate Projections to Estimate Seasonal Variability in Runoff from an Urbanizing Catchment, Paper presented at the 53rd ACSP Annual Conference, November 1-4, Cincinnati, Ohio.

Mitsova, D., A.M. Esnard, and Y. Li. Using Areal Interpolation Techniques to Improve the Spatial Accuracy of Sea Level Rise Vulnerability Assessments, presented at the 52nd Annual Conference of the Association of the Collegiate Schools of Planning, October 13-15, 2011, Salt Lake City, UT.

Mitsova, D., W. Shuster and X. Wang. *Integrating a Cellular Automata Model of Land Cover Change with an Open Space Conservation Network*. 51st ACSP Annual Conference, Getting to Scale: Planning in Multi-Scale, Functionally Integrated Environments, October 7-10, 2010, Minneapolis, Minnesota.

Esnard, A-M, A. Sapat and **D. Mitsova**. *Estimating Long-Term Displacement from Catastrophic Hurricanes*. 35th Annual Natural Hazards Research and Applications Workshop, Broomfield, Colorado, July 10-13, 2010.

Mitsova, D., and J., Vos. *Potential Damage Cost of Relative Mean Sea Level Rise*. Presented at the 50th Annual Conference of the Association of Collegiate Schools of Planning, Washington, DC, October 1-4, 2009.

Mitsova-Boneva, D., and Wang, X. 2008. A Cell-based Model for Identifying Contributing Areas of Nitrogen Loss to Surface Waters. 2008 Annual International Meeting, American Society of Agricultural and Biological Engineers, June 29 - July 2, Providence, Rhode Island. *ASABE On-Line Technical Library: 2008 Annual International Meeting*, American Society of Agricultural and Biological Engineers, available at <http://asae.frymulti.com/abstract.asp?aid=24809&t=2>.

Mitsova-Boneva, D., and Wang, X. 2007. Predicting the Contribution of Atmospheric Deposition to the Seasonal Nitrogen Loads in the East Fork Little Miami River Watershed, Ohio. Presented at the 4th Conference on Watershed Management and TMDL, March 10-13, 2007, San Antonio, Texas. In: *Proceedings of 4th Conference on Watershed Management to Meet Water Quality Standards and TMDL*, ASABE Publication 701P0207, pp. 216-230. St. Joseph, MI: American Society of Agricultural and Biological Engineers (ASABE), ISBN 1-892769-56-5, Library of Congress Card Number (LCCN) 2007921906.

Regional /Local:

Mitsova, D. 2015. Living Shorelines. **Seventh Annual Southeast Florida Regional Climate Leadership Summit: Charting the Course**, December 1-3, 2015, Casa Marina Resort, Key West, Florida.

Mitsova, D. and S. Reed. 2015 *APA Florida Annual Conference*, Session Title: *Building Coastal Green Infrastructure through Living Shorelines*, Session Track: *SPEED Session 2 - Memorable Places*, September 9-12, 2015, Hollywood, Florida.

Mitsova, D., F. Wissinger, A-M Esnard, R. Shankar, and P. Gies. A Collaborative Geospatial Shoreline Inventory Tool to Guide Coastal Development and Habitat Conservation. Presented at the 77th Annual Meeting of the FLORIDA ACADEMY OF SCIENCES - "*Climate Change and Florida's Coastal Communities*," BARRY UNIVERSITY, Miami Shores, FL, March 8-9, 2013. [Resulted in a journal article in *ISPRS International Journal of Geo-Information*].

Non-refereed Publications, Presentations, and Proceedings

Bocchini, P., **D. Mitsova**, A. Sapat, A-M Esnard, D. Davison, L. Snyder, A. Lamadrid, R. Sause. 2015. Probabilistic Resilience Assessment of Interdependent Systems – PRAISYS, Poster presentation at the National Workshop on Resilience Research (NWRR) for Critical Infrastructure: Current Status and Challenges, National Science Foundation, October 22-23, 2015, Arlington, VA.

Mitsova, D. 2014. SEFL Living Shorelines Spatial Database Technical Report, a project funded by a Grant Agreement #FLFO-FAU-060114 between The Nature Conservancy and the Florida Atlantic University Board of Trustees.

Mitsova, D. SEFL Living Shorelines Spatial Database, a workshop organized by The Nature Conservancy and the SEFL Regional Compact Shoreline Resilience Working Group, February 23-24, 2015, Miami Beach, FL.

Mitsova, D. Shoreline resilience through green infrastructure and living shorelines, a workshop organized by The Nature Conservancy and the SEFL Regional Compact Shoreline Resilience Working Group, June 18-19, 2014, West Palm Beach, FL.

Mitsova, D. 'Student participation in developing an Android App for the Green Neighborhood Certification Program,' invited speaker at Leadership Boca, April 16, 2014.

Shankar, R., F. McAfee, **D. Mitsova**, M. Harris. Android Apps at FAU: 600 students, 60 apps, 4 years, Mobile Technology Consortium (MTC) Symposium, April 4, 2014, <http://mtc.fau.edu/>

Mitsova, D. "A Collaborative Geospatial Shoreline Inventory Tool to Guide Coastal Development and Habitat Conservation," presented at the UK/Florida: Sea Level Rise Exchange, Boca Raton, March 26, 2013.

Mitsova, D. "Using GIS to Forecast and Plan for Future Urban Development", Geosciences Colloquium Series, Fall 2012 Schedule, September 21, 2012.

Mitsova, D., A.M. Esnard, R. Shankar, F. Wissinger, and M. Viciado. Holding back the Sea: Approaches toward shoreline management and planning to reduce the impacts of coastal hazards. Poster presentation at the SLR Summit *Risk and Response: The Future of Florida and the Coast*, June 20-22, 2012, Boca Raton, Florida.

Neighborhood Certification Program developed by students enrolled in URP6429 Environmental Policy and Programs in collaboration with the Green Living Advisory Board of the City of Boca Raton (Fall 2012). Presented to the City Council of Boca Raton on Aug. 26, 2013 (streaming video at <http://www.ci.boca-raton.fl.us/city/agendas.aspx>; http://bocaraton.granicus.com/MediaPlayer.php?view_id=2&clip_id=846).

Mitsova, D., J. Vos and I. Stafeychuk. 2011. *Seasonal Flushing of Oil and Grease from Urban Runoff to Biscayne National Park and Aquatic Preserve*, Final Report to the National Park Service under Task Agreement: J5284-09-0004, Cooperative Agreement: H5000-06-0103 FAU.

Mitsova, D., Esnard A.M and Li, Y. 2011. *Using Surface Population Models to Improve the Spatial Accuracy of Sea Level Rise Vulnerability Assessments*, a poster presented at CIMR – Climate

- Information for Managing Risk Symposium, *Local to Regional Adaptation and Mitigation Strategies*, May 24-27, 2011, Orlando, Florida.
- Mitsova, D. *Coastal Zone Planning for Sea Level Rise*, presented at the working luncheon and research symposium "Climate Change: The Threat and Opportunity for Global Security" with Rear Admiral Neil Morisetti, UK Climate and Energy Security Envoy, September 30, 2011, Boca Raton, FL.
- Mitsova, D. 2010. Fossil Fuels: Where Do We Stand? What Can We Do?, Two lectures for freshmen at the Engineering Academy of Olympic Heights Community High School, December 8, 2010, Boca Raton, FL.
- Mitsova, D. 2010. Lake Davie and the Rising Water: Potential Impacts of Sea-Level Rise on Developed Florida, presented at *The Truth About Florida*, an Educational Conference for Journalists and Planners presented on World Town Planning Day, co-sponsored by the FAU School of Urban and Regional Planning and Scripps Howard Institute for the Environment, November 8, Fort Lauderdale, FL.
- Mitsova, D. and Y. Li. 2010. Assessment of Analytical and Critical Thinking Skills in Two Advanced Methods Courses. *Faculty Assessment Grant Presentations* organized by the FAU Center for Teaching and Learning under the Scholarship of Teaching Faculty Enhancement Programs, November 18, 2010, Boca Raton, FL.
- Moderator, USGS-sponsored workshop titled "Developing a Sea Level Rise Vulnerability Framework for South Florida: Indicators, Metrics and Models.", FAU School of Urban and Regional Planning, Fort Lauderdale, FL, June 2, 2010.
- Lecturer, *The Use of Orthometric and Tidal Datums in Developing Sea-level Rise Scenarios*, a lecture presented at a workshop with visiting students and instructors from the University of Karlsruhe - Germany, Fort Lauderdale, FL, April 29, 2010.
- Mitsova, D. 2010. *Human Dimensions of Sea-Level Rise: A Dasymeric Demographic Analysis of South Florida*, abstract submitted to the *Sea-Level Rise Workshop*, February 16-17, 2010, Boca Raton, FL.
- Invited Panelist and Presenter, *Urban Assets at Risk Due to Incremental Sea Level Rise, Climate Change Symposium* hosted by Florida Atlantic University, April 3rd 2009.

Contracts or Grants Received:

EXTERNAL:

Funded:

- PI, National Science Foundation (NSF), Collaborative Research: CRISP TYPE 2: Probabilistic Resilience Assessment of Interdependent Infrastructure (09/01/2015 – 08/31/2018), \$296,793 (Collaborative award with Lehigh University and Georgia State University for a total of \$2.2M, PI: Paolo Bocchini, Co-Pis: Alka Sapat, Ann-Margaret Esnard, Brian Davison, Alberto Lamadrid, Richard Sause, and Larry Snyder).
- Co-PI, Florida Sea Grant, ADAPT: Adaptation Design and Planning Tool for Urban Areas in the Coastal Zone (PI Jeffery Huber, School of Architecture, FAU) (02/01/2016-01/31/2017), \$280,000.
- PI, The Nature Conservancy, "Suitability Analysis for Living Shorelines in Southeast Florida Estuarine Systems," (8/31/2015 – 01/31/2016), \$10,000.
- PI, The Nature Conservancy, "SE Florida Living Shorelines Spatial Database" (06/01/2014 – 12/31/2014), \$7,228.

- Co-PI, Kresge Foundation, “Impacts of Sea Level Rise on Public Health in Southeast Florida” (PI, Roderick King, Florida Institute for Health Innovations, and Dr. Colin Polsky, FAU), (12/2013 – 12/2015), \$250,000.
- PI, NASA SAR Data Center, “Evaluation of Shoreline Changes Using LiDAR and InSAR Data” (7/13), covers the cost of preliminary data processing for ALOS PALSAR and RADARSAT-1 granules.
- Co-PI (as a University stakeholder), *Rooftop Solar Challenge Phase II* funded by DOE, federal flow-through with Broward County as the lead agency, 09/2013 – 07/2015; \$1.575 million (FAU \$20,000, not contracted).
- Co-PI, USGS, “Sea Level Rise Vulnerability Framework for USGS Ecosystem Portfolio Model” (with Principal Investigator: Ann-Margaret Esnard; 2012, \$23,274.
- PI, research grant awarded by the FAU Environmental Sciences Everglades Fellowship Initiative, funded by the National Park Service, “*Seasonal Flushing of Oil and Grease from Urban Runoff to the Biscayne Bay Aquatic Preserve*” (4/09-5/11), with Jaap Vos as Co-PI; \$46,854
- Collaborator (Lead Co-Author), a research grant awarded by the State of Florida for “*A SUS Climate Change Task Force: Science addressing the needs of Florida Agencies, Industry and Citizenry*” (with Principal Investigators: Len Berry and Marguerite Koch-Rose (1/11-1/12); \$175,000.

Collaborations on other funded grants:

- Collaborator, National Science Foundation grant, “*Displacement Due to Catastrophic Hurricanes: Assessing Potential Magnitude and Policy Implications for Housing and Land Development*” [2009-2010, with Principal Investigators: Ann-Margaret Esnard, and A. Sapat, \$301,643]
- Collaborator, Procter & Gamble research grant with Principal Investigator: Dr. Xinhao Wang, development of a geodatabase of drinking water quality data for 76 metropolitan statistical areas. Results are available at <http://www.uc.edu/gissa/projects/drinkingwater/> (06/2006-09/2006); \$40,000.

INTERNAL

Funded

- PI, FAU Climate Change Seed Grant Initiative, “A shore zone inventory / characterization tool as an extension to ArcGIS” (with Ann-Margaret Esnard, SURP, and Ravi Shankar, Computer Science), \$10,000, 01/2012 -12/2012.
- Grant Recipient, FAU Faculty Assessment Grant, *Assessment of Graduate Level Specialization Courses in Environmental and Economic Analysis Methods*, (1/10-5/10), with Yanmei Li, \$5,000.
- Grant Recipient, FAU Faculty Research Mentoring Program, (2010-2011), with Ann-Margaret Esnard, \$2,000.

Courses taught at FAU (August 2008-present)

- URP6272 *Managing GIS Projects*, Fall 2015
- URP6310 *Seminar in Urban Planning*, Spring 2015
- URP4120 *Planning Implementation Strategies*, Spring 2015
- URP6270 *Introduction to GIS*, Fall 2013, Fall 2014
- URP 6425 *Environmental Analysis in Planning (graduate)*, Spring 2009, 2010, 2011, 2012 , 2014
- URP 6930 *Seminar in Cities & Climate Change Adaptation (graduate /undergraduate)*, Spring 2011
- URP 4403 *Sustainable Cities (undergraduate)*, Spring 2010, 2011, 2012, 2013, Online since 2014
- URP 6115 *Urban Governance (graduate)*, Fall 2009, 2010, 2011, 2012 , 2013, 2014
- URP 6429 *Environmental Policy and Programs (graduate)*, Fall 2009, 2010, 2012 , 2013, 2014
- URP 4930 *Planning Project (undergraduate)*, Spring 2009, Spring 2013, 2014
- GEO 7978 018, *Advanced Research (PhD level, Department of Geosciences, Fall 2011 & Spring 2012, Fall 2016)*

Supervision of Graduate Students

Student/ University	Thesis/ Dissertation Topical Area	Type	Degree	Role	Date / expected date of graduation
Meagan Weisner, FAU	Drinking water quality	Dissertation	Ph.D., Geosciences	Committee	Pending, 2018
Lisa Colmenares, FAU	Social Network Analysis in Transportation Planning	Dissertation	Ph.D., Public Administration	Committee	Pending, 2016
Andrew Kamerosky, FAU	Water Quality	Dissertation	Ph.D., Geosciences	Chair	Pending, 2017
Mark Rochelo FAU	Remote Sensing, Green Infrastructure	Dissertation	PhD, Geosciences	Committee	Pending, 2016
Rebecca Daugherty, FAU	Wildlife road kills, hot spot analysis	Thesis	Masters of Environmental Science	Committee	2015
Frank Wissinger, FAU	Surface and groundwater modeling	Dissertation	Ph.D., Computer Science	Committee	2014
Christine Mitchell, FAU	Human geography	Dissertation	Ph.D., Geosciences	Committee	2014
Keren Bolter, FAU	SLR vulnerability	Dissertation	Ph.D., Geosciences	Committee	2014
Amanda Mulcan, FAU	Renewable energy	Thesis	Masters of Environmental Science	Committee	2014
Gillian Breary, FAU	Remote Sensing, Green Infrastructure	Dissertation	Ph.D., Geosciences	Committee	2013
Shivangi Prasad,	Vulnerability to	Dissertation	Ph.D., Geosciences	Committee	2013

FAU	hurricanes, index				
John Zahina-Ramos, FAU	Urban Agriculture	Dissertation	Ph.D., Geosciences	Committee	2013
Elad Mokadi, Univ of Cincinnati	Urban growth modeling	Thesis	Masters of Community Planning	Committee	2012

Service and Professional Development

Service to the Institution

University

- Member, University Research Committee, starting 2015
- Member, University Honors Council, starting Fall 2014 - Developed an Honors Program for BURP and BUD, approved by the Faculty Senate in September 2015 and included in the FAU Catalog in January 2016.
- Member, FAU Environmental Sciences Program Committee, Fall 2012 to date
 - Participated in preparing the self-study report and the site visit (Spring 2015)
 - Member, Curriculum Subcommittee for the Graduate Certificate in Environmental Restoration (with Scott Markwith and John Baldwin).
- Member, FAU AWIS (Association of Women in Science) Taskforce, since Fall 2014
- Research team member, FAU Climate Change Research Priority Area, since 2009
- Member, FAU Environmental Sciences Everglades Fellowship Committee, 2009 - 2011
- FAU Faculty Learning Communities, participant, Spring 2010, Fall 2012 - Spring 2013
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School/ College

- CDSI Research Infrastructure Committee, (Fall 2015)
- Graduate GIS Certificate Coordinator (2014-2016)
- School representative on the College P&T Committee, (2014-2015)
- Chair, Faculty Search Committee for three positions (2015)
- Member, CDSI - College Research Committee, (2012-2016)
- Member, Committee to Review Design and Social Inquiry Promotion and Tenure Document, FAU College for Design and Social Inquiry, 2011

Service to the Discipline/ Profession

- Site visit team, **NSF 3-Gen Engineering Research Centers (ERC) Program**, Atlanta, GA, November 7-8, 2016.
- Peer reviewer/ panelist for the **NSF/USDA Food-Energy-Water (FEWs) Program** grant applications, May 25-26, 2016, Washington, DC.

- Peer reviewer/ panelist for the **USEPA STAR 2015 FELLOWSHIP APPLICATIONS: EPA-2015-STAR --F1 Sustainable and Healthy Communities- Multidisciplinary Approaches To Optimize Decision Outcomes**, September 10-11, 2015.
- External reviewer for a USEPA technical report, May 2015
- Peer reviewer/ panelist for the **USEPA STAR 2012 FELLOWSHIP APPLICATIONS – B2 Air, Climate & Energy, Global Change**, panel meeting March 14-15, 2013, Washington, DC
- Peer reviewer/ panelist for the **USEPA STAR 2012 FELLOWSHIP APPLICATIONS – A3-2 Social Sciences**, March 8-9, 2012, Washington, DC.
- Reviewer of 12 abstracts for the **4th BIENNIAL SUBTROPICAL CITIES CONFERENCE**, October 17-19, 2013, Fort Lauderdale, FL.
- Reviewer of six chapters of an undergraduate textbook *Global Climate Change: A First Course*, Jones and Bartlett Publishers (2010)
- Reviewer for the *Journal of Environmental Management* (2006, 2009), *Journal of Water Resources Planning and Management Engineering* (2007), *Urban Water Journal* (2008), *Water Resources Management* (2008), *Soil and Water Conservation* (2008), *Journal of Urban Planning and Development* (2008, 2010, 2013), *Science of the Total Environment* (2008), *Land Degradation and Development* (2011), *Environmental Management* (2011), *Land Degradation and Development* (2011), *Environmental Management (Springer)* (2011), *Journal of Environmental Management (Elsevier)* (2011), *Urban Water Journal* (2011), *Water Resources Engineering* (2011), *Water Resources Management* (2011), *Journal of Environmental Planning and Management* (2012), *Landscape and Urban Planning* (2012, twice), *International Journal of Geo-Information* (2012), *Journal of the Planning Literature* (2012), *Cities* (2012), *Environmental Modelling and Software* (2013), *Climatic Change* (2013).
- Reviewer of 10 abstracts for the **12th International Conference on Computers in Urban Planning and Urban Management** held in Canada on July 5-8, 2011, Lake Louise, Alberta, Canada

Service to the Community/Public

- Member, Shoreline Resilience Working Group of the SEFL Regional Climate Compact, 2013-2016
- Interagency Flood Risk Management Project: **Coastal Flood Risk Reduction Decision Support System in Miami-Dade County, South Florida** (USACE, SFWMD, Miami-Dade County, USGS, USDI, Southeast Florida Regional Climate Change Compact Partners, Florida Silver Jackets, TNC, FAU, FIU), 2016-2017
- Serving as faculty liaison for *Go Solar Rooftop Challenge Phase II* and working with Broward County and selected municipalities on zoning and planning regulations in support of this initiative funded by DOE, 2013-2015
- Working with the Green Living Advisory Board of the City of Boca Raton to develop a Green Neighborhood Certification Program, which was approved by the City Council in August 2013.
URL:
http://bocaraton.granicus.com/DocumentViewer.php?file=bocaraton_4638db570a8ffb9af90abb9c965d463.pdf

- Working with Miami-Dade County Office of Sustainability to provide input to 40 initiatives included in the **GreenPrint** Sustainability Plan. A Letter of Appreciation has been sent to FAU in recognition of this effort.
- Working with the Village of Wellington to develop a Sustainable Element for the Comprehensive Plan (Spring 2009). Updating the Comprehensive Plan of the Village of Wellington to meet the requirements of HB697 (Summer 2009) – **approved** by DCA.
- Engineering Academy Advisory Board, Olympic Heights Community High School, Boca Raton, FL. The Engineering Academy is part of the Project *Lead the Way* (www.pltw.org) which is a nationwide initiative intended to promote technology education at high schools.