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### **RESEARCH AND TEACHING INTERESTS**

Hazard and vulnerability assessment; disaster planning; GIS/spatial analysis; land use and environmental planning.

### **EDUCATION**

- Ph.D. **Regional Planning**, University of Massachusetts, Amherst, USA, 1995.  
*Dissertation: Implications of Geographic Information System Technology for Planning Education*
- M.S. **Agronomy and Soils**, University of Puerto Rico, Mayaguez, PR, 1992.  
Honor Society of Agriculture: Gamma, Sigma, Delta  
*Thesis: A Solar Radiation Estimator for Use in Crop Simulation Models*
- B.S. **Agricultural Engineering**, University of the West Indies, Trinidad, 1990.  
*Thesis: Expert System for Sprinkler Irrigation Design*

### **ACADEMIC EXPERIENCE**

- 2009- **Professor & Director of Visual Planning Technology Lab**; School of Urban and Regional Planning, **Florida Atlantic University**  
Affiliation: Graduate Faculty for Geosciences Ph.D. Program (2009-)
- 2005- **Associate Professor & Director of Visual Planning Technology Lab**,  
2009 School of Urban and Regional Planning, **Florida Atlantic University**
- 2003- **Associate Professor & Director of GEDDeS Computer Lab**,  
2005 Department of City and Regional Planning, **Cornell University**
- 1997- **Assistant Professor & Director of GEDDeS Computer Lab**,  
2003 Department of City and Regional Planning, **Cornell University**
- 1/1997 **Research Associate/Instructor** (Institute of Transportation Research  
7/1997 and Education, **North Carolina State University**)
- 1995- **PostDoc**, Dept. of City and Regional Planning, **UNC-Chapel Hill**  
1/1997
- 1992- **Research and Teaching Assistant** (Department of Landscape  
1995 Architecture and Regional Planning, **UMass-Amherst**)
- 1991- **Research Assistant**, Department of Agronomy and Soils, **UPR-Mayaguez**  
1992

## **AWARDS/RECOGNITION**

- 2012 “Professor of the Year Award”, Florida Atlantic Planning Society, School of Urban and Regional Planning, Florida Atlantic University
- 2011 “World Class Faculty” Award, Greater Fort Lauderdale Alliance
- 2010 Research Mentoring Program Award, Florida Atlantic University
- 2007 Nominee for Distinguished Teacher of the Year Award, College of Architecture, Urban and Public Affairs, Florida Atlantic University
- 2005 ESRI Special Achievement in GIS (with *Lincoln Institute of Land Policy*)
- 2004 Outstanding Educator Award (for having most influenced Cornell University Undergraduate Merrill Scholar).
- 2001 AICP President’s Award, American Institute of Certified Planners
- 2001 AICP Student Project award & Upstate New York Chapter of the American Planning Association Outstanding Student Project Award for “Land Use Framework Plan for the Town of Dryden, NY” (Co-instructor with Rolf Pendall)
- 2000 Outstanding Educator Award (for having most influenced Cornell University Undergraduate Merrill Scholar)
- 2000 Faculty Fellows In Service Symposium Award, Cornell University
- 1990 Agricultural Engineering Faculty Prize, University of the West Indies

## **ACADEMIC FELLOWSHIPS & SCHOLARSHIPS**

- 1995-1997 Carolina Minority Postdoctoral Fellowship. Office of the Vice Provost for Graduate Studies and Research, and Department of City and Regional Planning, University of North Carolina at Chapel Hill.
- 1992-1995 Research Assistantship [program P-1-157] to pursue doctoral studies in regional planning in the Department of Landscape Architecture and Regional Planning at the University of Massachusetts, Amherst.
- 1991- Research Assistantship under CBAG-42 project [Grant No. 89-34135-1992 4662] Computer Systems for Enhancing Agricultural Decision Making in the Caribbean, University of Puerto Rico
- 1987-1990 European Development Fund (E.D.F.) scholarship for study toward B.S. Degree in Agricultural Engineering at the University of the West Indies.

## **PROFESSIONAL COMMITTEES & SERVICE**

### ***External - Policy Committees***

- Committee on Private-Public Sector Collaboration to Enhance Community Disaster Resilience, National Academies of Science-National Research Council (Member, 2009-2010)
- State of Florida Post-Disaster Redevelopment Planning Initiative Working Group (Member, 2007-2011)
- Committee to Review the U.S. Climate Change Science Program's Synthesis and Assessment Product 5.2 "Best Practice Approaches for Characterizing, Communicating and Incorporating Scientific Uncertainty in Climate Decision Making" . The National Research Council of the National Academies (Member, 2006-2007)
- Institute for Business and Home Safety Safe Growth Committee (Member, 2006-2010)
- Steering Committee for the Evaluation of the National Flood Insurance Program directed by the American Institutes for Research on behalf of FEMA (Member, 2001-2006]
- Disasters Roundtable, National Academy of Sciences (Member, 2002-2004)

### ***External – Journal Editorial Boards***

- Natural Hazards Review (2011-)
- Journal of Urban Planning and Development (June and September 2009 issues)

### ***External - Academic Committees***

- Association of Collegiate Schools of Planning Accreditation Board Advisory Committee (Member, 2010-)
- Association of Collegiate Schools of Planning Review and Appraisal Committee (Member, 2008-2011)
- Planning Accreditation Board Site Visitor Pool (2006-)
- Faculty Associate, Department of Planning and Development, Lincoln Institute of Land Policy (Faculty Associate, 2003-2009).
- Review Committee, Institute for Business & Home Safety and ACSP Award for Scholarship in Planning and Natural Hazards (Chair [2005]; Member [2004])
- Community Planning Fellowship Review and Selection Committee under the auspices of the Federal Emergency Management Agency (FEMA) and Multi-hazard Mitigation Council (MMC) [Member, Spring 2005]
- Oversight Committee, Project for Incorporating Mitigation into Standard Planning Curriculum [Multi-hazard Mitigation Council (MMC) of the National Institute of Building Sciences and Federal Emergency Management Agency (FEMA); Chair, 2001-2003]
- Project Impact Higher Education Network sponsored by FEMA (Member, 2000)
- Project Impact Summit Poster Review Committee (Member, 2000)
- Communities and Academics Partnering for the Environment (CAPE) Governing Board of Directors (Member, 2000-2004)
- Town of Dryden Project Impact Steering Committee & Chair of the Education/Outreach Sub-Committee (Member, 1999-2002)

### ***External - Grant Proposal Ad-Hoc Reviews***

- Ad-Hoc Reviewer, Cooperative Institute for Coastal, Estuarine and Environmental Technology
- Ad-Hoc Reviewer, Florida Sea Grant College Program
- Ad-Hoc Reviewer, National Research Council, Division on Earth and Life Studies, The National Academies
- Ad-Hoc Reviewer, National Science Foundation
- Ad-Hoc Reviewer, Oregon Sea Grant College Program
- Ad-Hoc Reviewer, USDA Small Business Innovation Research Program
- Ad-Hoc Reviewer, Water Resources Research Institute of UNC
- Ad-Hoc Reviewer, Wildlife Habitat Policy Research Program, managed by National Council for Science and Environment (NCSE)

### ***External - Journal Ad-Hoc Reviews***

- Ad-Hoc Reviewer, Coastal Management Journal
- Ad-Hoc Reviewer, Cultural Geographies
- Ad-Hoc Reviewer, Journal of the American Planning Association
- Ad-Hoc Reviewer, Journal of Disaster Research
- Ad-Hoc Reviewer, Journal of Planning Education and Research
- Ad-Hoc Reviewer, Journal of Public Management and Social Policy
- Ad-Hoc Reviewer, Journal of Urban Planning and Development
- Ad-Hoc Reviewer, Marine Technology Society Journal
- Ad-Hoc Reviewer, Natural Hazards
- Ad-Hoc Reviewer, Natural Hazards Review
- Ad-Hoc Reviewer, Nature Education Knowledge Project
- Ad-Hoc Reviewer, URISA

### ***University - Florida Atlantic University***

- Advisory Board, FAU Contemporary Societal Issues Signature Theme (2013-)
- Planning Committee, FAU Marine and Environmental Initiatives (2012-)
- University Research Committee, Florida Atlantic University (Chair, 2008-2010)
- Provost Search Committee (Member, 2010-2011)
- Search Committee for Director of Climate Change Research Initiative (Member, 2010)
- University Research Committee, Florida Atlantic University (Member, 2006-2010)
- Search Committee for Chief Information Officer and Associate Provost (2008-2009)

### ***College/Department- Florida Atlantic University***

- Director, Visual Planning Technology Lab, Florida Atlantic University (2005-)
- Member, College Promotion and Tenure Committee (2012-)
- Graduate Program Coordinator, School of Urban and Regional Planning (2009-2011)
- Chair, College Research Committee, College of Architecture, Urban and Public Affairs (2006- 2010)
- Member, College Research Committee (2005-2012)
- Member, School of Urban and Regional Planning faculty search committees (2007-)
- Member, College of Architecture, Urban and Public Affairs *Vision 20* Committee (Fall 2007)

### ***University - Cornell University***

- Inaugural member, Cornell West Campus Living Learning Council and co-chair of House Operations and Transition Committee (2000-2005)
- Cornell University/Ithaca Flats COPC (U.S. Department of Housing and Urban Development, Contributor, Spring 2000)
- College Representative, Faculty Advisory Board on Information Technology (Spring 2005)
- Member, Cornell Risk Analysis Studies Steering Committee (2002-2004)

### ***College/Department- Cornell University***

- Director, GEDDeS Computer Lab (1997-2005)
- Chair, City and Regional Planning Curriculum Committee (2003-2005)
- City and Regional Planning Graduate Admissions Committee (1998-2005)
- Diversity and Recruitment Committee (1999-2005)
- College of Architecture, Art and Planning Digital and Electronic Committee (1999-2005)
- GIS Summer Workshop Co-coordinator (2000)
- The Thinning Metropolis conference co-organizer (2000)
- Spatial Data Analysis and GIS Workshop Co-coordinator (1999)

## **SCHOLARSHIP- PUBLICATIONS**

### ***Books and Chapters in Books***

**Esnard, A-M** and A. Sapat. Environmental Crises, Population Displacement and Disaster Recovery (in progress, Routledge Press: Taylor and Francis).

**Esnard, A-M.** 2013. Taking Action in Uncertain Environments: Connecting Resilience to Hazards. In *Disaster Resiliency: Interdisciplinary Perspectives* (eds. N. Kapucu . C. Hawkins and F. Rivera). Routledge: Taylor and Francis, New York, NY.

**Esnard, A-M.** 2012. Visualizing Information. Chapter 16 in: *Handbook of Urban Planning*, eds. R. Weber and R. Crane. Oxford University Press Inc., New York, NY.

Contributor, Committee on Private-Public Sector Collaboration to Enhance Community Disaster Resilience. 2011. *Building Community Disaster Resilience through Private-Public Collaboration*. Geographical Science Committee, National Research Council, National Academics Press, Washington, DC.

**Esnard, A-M** and A. Puszkin-Chevlin. 2010. Coastal Property Analysis through a Hazard Exposure Lens. In *Visual Valuation: Implementing Valuation Modeling and Geographic Information Solutions*, ed. M. Linne with M.M. Thompson. The Appraisal Institute, Chicago, IL.

**Esnard, A-M.** 2007. The Nexus of Hazard Assessment, GeoSpatial Technologies, and Holistic Community Planning Strategies (Chapter 5). In “Losing Ground: Nation on Edge” Environmental Law Institute.

**Esnard, A-M,** P. R. Berke, D. R. Godschalk, and E. J. Kaiser. 2006. *Hypothetical City*

*Workbook III: Exercises and GIS Data to Accompany Urban Land Use Planning, Fifth Edition.* University of Illinois Press.

American Planning Association. 2006. *Planning and Urban Design Standards.* New York: John Wiley and Sons. Contributing author to:

- Mapping Data Overview (**A-M Esnard**, pp. 527-528)
- Aerial Photographs and Digital Orthophoto Quadrangles (**A-M Esnard**, p. 529)
- Property Maps in Modern Cadastre (M.M. Thompson & **A-M Esnard**, pp. 535)
- Census Data and Demographic Mapping (**A-M Esnard**, pp. 536-537)
- Geographic Information Systems (**A-M Esnard**, pp. 540-542)

Eadie, C., B. Phillips, R. Emmer, **A-M. Esnard**, S. Michaels, J. Monday, C. Philipsborn, B. Phillips and D. Salveson. 2001. *Holistic Disaster Recovery: Ideas for Building Local Sustainability after a Natural Disaster.* University of Colorado: Natural Hazards Research and Application Center.

Kaiser, E.J., D.R. Godschalk, R.E. Klosterman and **A-M Esnard**. 1997. *Hypothetical City Workbook: Exercises, Spreadsheets and GIS Data to Accompany Land Use Planning, Fourth Edition.* University of Illinois Press.

Beinroth F.H., P.A. Hernandez, **A-M Esnard**, G. Acevedo and C. Dubee. 1992. Organic Carbon Content of the Soils of Puerto Rico. In F.H. Beinroth (ed.). *Organic Carbon Sequestration in the Soils of Puerto Rico: A Case Study of the Tropical Environment.* USDA Soil Conservation Service, World Soil Resources and University of Puerto Rico.

### ***Journal Publications (Peer Reviewed)***

Labiosa W.B., W.M. Forney **A-M Esnard**, D. Mitsova-Boneva, R. Bernknopf, P. Hearn, D. Hogan, L. Pearlstine, D. Strong, H. Gladwin, and E. Swain. 2012. An Integrated Multi-criteria scenario Evaluation Web Tool for Participatory Land-Use Planning in Urbanized Areas: The Ecosystem Portfolio Model. *Environmental Modelling & Software*, <http://dx.doi.org/10.1016/j.envsoft.2012.10.012>

Sapat, A., and **A-M Esnard**. Transboundary Impacts of the 2010 Haiti Earthquake Disaster: Focus on Sociolegal Dilemmas in South Florida. *Oñati Socio-Legal Series*, vol. 3, n. 2 (In Press, 2013 publication date)

Mitsova, D. and **A-M Esnard**. 2012. Holding Back the Sea: An Overview of Shore Zone Planning and Management. *Journal of Planning Literature* 27(4):446-459

Mitsova, D., **A-M Esnard** and Y. Li. 2012. Using Enhanced Dasymetric Mapping Techniques to Improve Spatial Accuracy of Sea Level Rise Vulnerability Assessments. *Journal of Coastal Conservation: Planning and Management* 16(3):355-372

Sapat, A. and **A-M Esnard**. 2012. Displacement and Disaster Recovery: Transnational Governance and Sociolegal Issues following the 2010 Haiti Earthquake. *Journal of Risk, Hazards and Crisis in Public Policy*, Vol. 3: Iss. 1, Article 2.

Mitchell, C.M., **A-M. Esnard** and A. Sapat. 2012. Hurricane Events and the Displacement Process in the United States. *Natural Hazards Review* 13(2):150-161.

**Esnard A-M**, A. Sapat and D Mitsova. 2011. An Index of Relative Displacement Risk to Hurricanes. *Natural Hazards* 59(2):833-859

**Esnard, A-M** and A. Sapat. 2011. Disasters, Diasporas and Host Communities: Insights in the Aftermath of the Haiti Earthquake. *Journal of Disaster Research* 6(3): 331-342

Sapat, A., C.M. Mitchell, Y. Li and **A-M Esnard**. 2011. Policy Learning: Katrina, Ike and Post-Disaster Housing. *International Journal of Mass Emergencies and Disasters* 29(1):26-56

Puszkina-Chevlin, A. and **A-M Esnard**. 2009. Evaluating Spatial Impacts of Change to Coastal Hazard Policy Language. *URISA Journal* 21(1):41-51.

Puszkina-Chevlin, A. and **A-M Esnard**. 2009. Incremental Evolution and Devolution of Florida's Coastal High Hazard Area Policy. *Journal of Environmental Planning and Management* 52(3):1-17.

Welsh, M.G. and **A-M Esnard**. 2009. Closing Gaps in Local Housing Recovery Planning for Disadvantaged Displaced Households. *Cityscape: A Journal of Policy Development and Research* 11(3):87-104.

J. Rosenberg, and **A-M Esnard**. 2008. Applying a Hybrid Scoring Methodology to Train Station Site Selection. *Journal of Urban Planning and Development* 134(4):180-186.

Iuchi, K., and **A-M Esnard**. 2008. Earthquake Impact Mitigation in Poor Urban Areas: The Case of Metropolitan Manila. *Journal of Disaster Prevention and Management*, 17(4): 454-469

**Esnard, A-M**. 2007. Institutional and Organizational Barriers to Effective Use of GIS by Community-Based Organizations. *URISA Journal* 19(2):14-21.

Levine, J., **A-M Esnard** and A. Sapat. 2007. Population Displacement and Housing Dilemmas due to Catastrophic Hurricanes. *Journal of Planning Literature* 22(1):3-15.

**Esnard, A-M**, M. Gelobter and X. Morales. 2004. *Environmental justice, GIS and pedagogy*. *Cartographica* 38(3&4): 53-61.

**Esnard, A-M**. 2003. Beyond semantics and the immediate post-disaster period: community quality of life as an overarching theme for sustaining collective action. *Natural Hazards Review* 4(3):159-165.

**Esnard, A-M**. and Y. Yang. 2002. Descriptive and comparative studies of 1990 urban extent data for the New York metropolitan region. *URISA Journal*, 14(1):57-62.

**Esnard, A-M**. 2002. Pre-disaster partnerships for post-disaster planning and implementation. *American Institute of Certified Planners Casebook* No. 42.

**Esnard, A-M**., D. Brower and B. Bortz. 2001. Coastal hazards and the built environment on barrier islands: a retrospective view of Nags Head in the late 1990s. *Coastal Management Journal* 29(1):53-72.

**Esnard, A-M.** 1999. Planners, landscape architects and designers' use of GIS technology: sample images from Cornell students. *Landscape Design Japan* 16:38-41.

**Esnard, A-M.** 1998. Cities, GIS and Ethics. *Journal of Urban Technology* 5(3):33-46

**Esnard, A-M.** and E.B. MacDougall. 1997. Integrating Planning Theory with GIS Courses. *Journal of Planning Education and Research* 17:55-62

**Esnard, A-M.,** L.R. Perez-Alegria, F.H. Beinroth and R. Goenaga. 1994. Generation of Solar Radiation Values for Use in the Weather Files of Crop Simulation Models. *Journal of Agriculture.* 78:33-44

### **Working Papers, Reports & Plans**

**Esnard, A-M.** 2008. Institutional & Organizational Barriers to Effective Use of GIS for Planning and Redevelopment: Focus on Community-Based Organizations. Working Paper prepared for the Lincoln Institute of Land Policy (WPO8AE1).

Murley, J.F., A. Puszkin-Chevlin, **A-M Esnard** and R. Kalin. 2008. Assessment of Redefining Florida's Coastal High Hazard Area. Report prepared for the Florida Hurricane Alliance (67 pages).

**Esnard, A-M,** A. Abbate, A. Temkin and J. Vos. 2007. Interoperable 3D-GIS: Urban modeling with ArcGIS 3D Analyst and Sketchup. ESRI ArcUser Magazine (*January-March 2007*)

Pendall, R., W. Goldsmith and **A-M Esnard.** 2001. *Thinning Rochester: Yesterday's Solutions, Today's Urban Sprawl.* Working Paper prepared for the Lincoln Institute of Land Policy (85 pages).

Frantz, G. and **A-M Esnard.** 2001. *Valley Communities Hazard Mitigation Plan.* Prepared and submitted to the Waverly Project Impact Committee (85 pages).

**Esnard, A-M.** 2000. Working with the local American Red Cross to respond to natural hazards and disasters in our backyards. *Working Papers Series on Service-Learning.* Public Outreach Center: Cornell University (pp. 13-18).

### **SCHOLARSHIP- RESEARCH, GRANTS & FUNDING**

#### **Received:**

*Florida Atlantic University*

- Diaspora Advocacy Coalitions and Networks: A Focus on Haiti's Disasters (Co-PI); National Science Foundation, \$299,983 (2012-2015).
- Developing 2013 Redistricting Options for Cooper City, Fl (PI). Cooper City, \$16,202 (2013).



- A Shoreline Inventory/Characterization Tool as a plug-in to ArcGIS (Co-PI). FAU Climate Change Initiative Seed Grant; \$10,000 (2012-2013).
- Sea Level Rise Vulnerability Framework for USGS Ecosystem Portfolio Model (PI). U.S. Geological Survey; \$23,274 (2011-2012).
- Haitian-Americans as critical bridges and lifelines for long-term recovery in Haiti (PI). National Science Foundation; \$39,827 (2010-2011).
- City of Pembroke Pines, Florida, Developing 2011 Redistricting Options for the City of Pembroke Pines (PI). City of Pembroke Pines; \$10,126 (2011).
- Quality of Life Indicators and Metrics for Ecosystems Portfolio Model (PI). *United States Geological Survey*; \$39,085 (2010-2011).
- Displacement Due to Catastrophic Hurricanes: Assessing Potential Magnitude and Policy Implications for Housing and Land Development (PI), *National Science Foundation*, \$301,643 (2007-2010).
- Institutional barriers to GeoSpatial technologies for planning by community based organizations (PI); Lincoln Institute of Land Policy, \$28,000 (2006-2007).
- Implications of Redefining Florida's Coastal High Hazard Area (with Ana Puszkin-Chevlin, Lead Investigator, FAU Center for Environment and Urban Solutions, \$24,005 (2006-2007).
- Redistricting Project for the City of Miramar, Florida (Collaborator); City of Miramar; \$26,090 (2006).

#### *Cornell University*

- Decision Tools for Post-Disaster Planning: Quality of Life as an Overarching Framework (PI); Cornell University Provost's Social Science Seed Grant Initiative, \$39,808 (2002).
- Hazard Mitigation Plan for Waverly Project Impact Communities (Collaborator, 2001).
- Building Capacity of Community Based Organizations fighting for environmental and social justice (PI); Clarence S. Stein Institute for Urban and Landscape Studies, \$8,589 (2000)
- Mapping natural hazards and vulnerability for eleven counties in New York State (PI). New York State Emergency Management Office, \$4,500 (1999)
- The Thinning Metropolis: Land Use, Land Values and Population Decline in Mid-sized Cities in the U.S. Heartland (CoPI). Lincoln Institute of Land Policy, \$35,000 (1999-2000).

- Digital Temporal Views of New York City Metropolitan Area. Joint Project between Cornell University, Regional Plan Association (New York) and U.S. Geological Survey, National Mapping Division (Cornell Collaborator, 1999-2000).
- Providing technical assistance and educational outreach: disaster and hazard planning in Tompkins County (PI). A project with the Tompkins County American Red Cross. Cornell University Faculty Fellow in Service Grant, \$2,000 (1999).
- GIS-based Mapping and Analysis for Emergency Response, Disaster Planning and Mitigation (PI). A project with the Tompkins County American Red Cross. Cornell University Faculty Fellow in Service Grant; \$1,640 (1998).

*NCSU - Institute for Transportation Research and Education*

- Design and development of procedures and software for accessing North Carolina's GIS data base for preparation of environmental reviews and permits (Collaborator). Funded by Center for Transportation and the Environment; North Carolina Department of Transportation; North Carolina Division of Coastal Management; and North Carolina Division of Environment, Health and Natural Resources (1997).

*UNC-Chapel Hill- Department of City and Regional Planning*

- Conceptualization and implementation of a GIS – based methodology for hurricane vulnerability analysis and risk assessment of Nags Head coastal properties (Researcher). Funded by the Town of Nags Head (1996-1997).
- Integrating Spatial Information Technologies in Planning and Policy Instruction (co-PI with E. Kaiser, D. Godschalk and A. Khattak). Chancellor's Task Force on Instructional Technology, UNC-Chapel Hill (1997).

*UMASS- Amherst, Department of Regional Planning*

- Population growth modeling and impacts on land use for Southwestern Connecticut (Research Assistant). Collaborative research between Regional Plan Association (New York) and the University of Massachusetts Funded by Connecticut Department of Environmental Protection (Grant 269R). (1992-1995).

*University of Puerto Rico-Mayaguez*

- Development of a prototype version of AEGIS (Agricultural and Environmental Geographic Information System) and DSSAT (Decision Support System for Agrotechnology Transfer) for Western Puerto Rico; and development of a solar radiation estimator (SOLGEN) for use in crop simulation models (master's thesis). Funded by USDA/CSRS Special Research Grants in Tropical and Subtropical Agriculture (PL 89-106) and managed by the Caribbean Basin Administrative Group (CBAG)- (1991-1992)

## **SCHOLARSHIP- CONFERENCES & WORKSHOPS**

### **Invited (Subject Matter Expert): Selected Sample**

Workshop on quick-response disaster reconnaissance, funded by the National Science Foundation, Arlington, Virginia (June 12-13, 2012).

Disaster Resiliency Workshop at University of Central Florida, Orlando, Florida (March 29-30, 2012).

National Consortium for the Study of Terrorism and Responses to Terrorism (START) workshop on “Setting the Standards: Training Curriculum for Local Officials on Communicating with the Public about Homeland-Security Threats”, Atlanta, Georgia (February 6-7, 2012).

NOAA/EPA Smart Growth and Hazard Mitigation Roundtable, NOAA Headquarters, Silver Springs, Maryland (August 24, 2011).

Workshop on “Theory of Disaster Recovery, organized by Public Entity Risk Institute, Chapel Hill, North Carolina (November 11-13, 2010).

Conference on “ Fighting for Survival :The Vulnerability of America’s Gulf coast and the Caribbean Basin” hosted by the Earth Institute at Columbia University with the National Center for Disaster Preparedness at Columbia University, and New Orleans Mayor Mitch Landrieu (New Orleans, LA, August 25-26 2010).

Workshop on “Toward a Natural Hazard Vulnerability and Resiliency Observatory Network”, Texas A&M University, College Station, Texas (June 13 & 14, 2008).

### **Conferences & Panels: Papers & Posters (1995-present)**

Sapat, A. and **A-M Esnard**. ‘Displacement, Diasporas and Disaster Recovery: Transnational Governance and Sociolegal Issues Following the 2010 Haiti Earthquake’ . Southeastern Conference for Public Administration Conference, Coral Springs Florida, October 4, 2012.

Mitsova, D. , **A-M. Esnard** and Y. Li.. Using surface population models to improve the spatial accuracy of coastal vulnerability assessments. ACSP Conference, Salt Lake City, Utah, October 2011.

Sapat, A. and **A-M. Esnard**. 'Haiti's Post-Disaster Recovery and Reconstruction through a Socio-Legal Lens. Disasters and Socio-legal Studies Conference, Onati, Spain, July 21-22 2011.

Sapat, A. and **A-M. Esnard**. 'Diasporas as Advocacy Coalitions and Networks'. Presented at the Annual Meeting of the Midwest Political Science Association, Chicago, Illinois, March 31- April 2, 2011.

**Esnard, A-M** and A. Sapat. ‘Haitian-Americans as Critical ‘Bridges’ and ‘Lifelines’ for Recovery and Rebuilding in Haiti . The Haiti RAPID and Research Workshop, organized by EERI and NSF, Arlington, Virginia, September 30 - October 1, 2010.

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

**Esnard, A-M**. *What Policies Could Enable Communities to Recover after a Nuclear Detonation*. Panel 3 in Conference on “Preparing to Save Lives and Recover after a Nuclear Detonation” (Washington, DC, April 29, 2010).

Sapat, A., Y. Li, C. Mitchell and **A-M Esnard**. *Policy Learning: Katrina, Ike and Post-Disaster Housing*. Presented at the 68th Annual Meeting of the Midwest Political Science Association, Chicago, IL, April 22-25, 2010.

Welsh, M.G. and **A-M. Esnard**. *Closing Gaps in Local Recovery Planning: a Focus on Household Recovery from Severe Hurricanes*. ACSP Conference “Hurricanes and Housing track” (October 2009, Virginia).

**Esnard, A-M**. *Resiliency through the lens of displacement vulnerability and long-term recovery*. Resilience Research Workshop sponsored by the Community and Regional Resilience Institute (July 14, 2009, Broomfield, Colorado).

Mitchell, C.M., **A-M Esnard** and A. Sapat. *Hurricane Events and the Displacement Process in the United States*. International Research Committee on Disasters Research Meeting (July 18-19, 2009, Broomfield, Colorado).

Sapat, A., C.M. Mitchell, Y. Li and **A-M Esnard**. *Policy Learning: Katrina, Ike and Post-Disaster Housing*. International Research committee on Disasters Research Meeting (July 18-19, 2009, Broomfield, Colorado).

W.B. Labiosa, R. Bernknopf, P. Hearn, D. Hogan, D. Strong, L. Pearlstine, A. Mathie, A. Wein, K. Gillen, P. Amos, S. Wachter, H. Galdwin, J. Borum and **A-M Esnard**. 2008. *Land Use Planning Decision Support in South Florida: The Ecosystem Portfolio Model*. A Conference on Ecosystem Services: Using Science for Decision Making in Dynamic Systems. December 8-11, 2008, Naples, Florida).

**Esnard, A-M**. “Recovery from Catastrophic Events: Katrina and other Potential Catastrophes”. Plenary Session, 33<sup>rd</sup> Annual Natural Hazards Research and Applications Workshop, Boulder, Colorado, July 12-15, 2008.

**Esnard, A-M**, J. Levine and A. Sapat. “Displacement due to Catastrophic Hurricanes: Assessing Potential Magnitude and Implications for Housing and Land Development Policies”. 2008 National Science Foundation (NSF) Civil, Mechanical and Manufacturing Innovation (CMMI) Engineering Research and Innovation Conference, Knoxville, Tennessee, January 7-10, 2008.

Puszkun-Chevlin, A. and **A-M Esnard**. *Hold the Line: Delineating Appropriate Boundaries for Coastal Development*. 2007 Association of Collegiate Schools of Planning Conference, Milwaukee, Wisconsin.

**Esnard, A-M**. *GIS Application Modules for Disaster Planning and Emergency Management*. 2006 Association of Collegiate Schools of Planning Conference, Fort Worth, Texas (November 9-12, 2006).

**Esnard, A-M.** *The Nexus of Disaster Planning, GeoSpatial Technologies and Local Land Use Planning Strategies.* Pace University, White Plains, New York (April 18, 2005).

**Esnard, A-M.** Rensselaer Polytechnic Institute, Technologies for Communities Workshop. *Partnering and Environmental Justice in Regional and Virtual Communities.* (April 5-6, 2002).

**Esnard, A-M.** *Environmental Justice Discourse in today's digital cities and cyber-communities: lessons for planning educators, students and practitioners.* 2001 Association of Collegiate Schools of Planning Conference, Cleveland, Ohio (November 7-11, 2001).

**Esnard, A-M.** *Bridging the Digital Divide: data gathering and GIS analysis for your Environmental Justice Struggles.* 2001 Planners Network Conference, Rochester, New York (June 2001).

**Esnard A-M** (with C.A. Hallam, R. Pirani and D.R. Sechrist). *Urban Growth in the New York Metropolitan Region.* Panel Presentation for the 2001 Annual Meeting of the Association of American Geographers in New York City (February 27- March 3, 2001).

**Esnard, A-M.** *Community-University partnerships as real opportunities for bridging digital divides in Project Impact communities.* 2000 Project Impact Summit, Washington, D.C. (November 12-16, 2000).

Pendall, R. W. Goldsmith and **A-M. Esnard.** *Thinning Rochester: Yesterday's Solutions, Today's Urban Sprawl.* Conference on the Thinning Metropolis, September 8-9, 2000, Cornell University.

**Esnard, A-M.** Panelist, Environmental Protection Agency's Clean Air Act Advisory Subcommittee on Land Use, Transportation and Air Quality. Washington, DC, October 1999.

Barlow, R., D. Sechrist, J. Tilley, R. Pirani, **A-M. Esnard,** Y. Yang. *Decadal Snapshots from the NY-NJ-CT Metropolitan Area Urbanization Project.* Poster presented at the 1999 NYS GIS Conference, Rochester, NY.

**Esnard, A-M.** and H. Chang. *Creating a Map Inventory for Emergency Response in Tompkins County, NY.* In: Proceedings of the 1999 Conference on the Applications of Remote Sensing and GIS for Disaster Management.

**Esnard, A-M.** and H. Chang. *Appropriate GIS databases and models for hazard assessment and mitigation in rural communities.* Presented at the 1999 ACSP Conference. Chicago, Illinois.

**Esnard, A-M,** Barbara Lynch and K. Guild. *Urban Gardens in New York City Neighborhoods: assessing constituency, environmental services and alternative uses.* Presented at the 1998 ACSP Conference. Pasadena, California.

Kaiser, E.J., D.R. Godschalk, R.E. Klosterman and **A-M Esnard**. *A Planning Support System for Teaching Land Use Planning*. Presented at the 1997 ACSP Conference. Ft. Lauderdale, Florida.

**Esnard, A-M**. *Professional Ethics in the GIS Era*. Presented at the 1996 Joint International ACSP-AESOP Conference. Toronto, Canada: Ryerson Polytechnic University, July 25-28.

**Esnard, A-M**. *GIS Education Versus GIS Training: A Dilemma Revisited in Planning Schools*. In Proceedings of the 92nd Annual Meeting of the Association of American Geographers, Charlotte, North Carolina.

## **TEACHING EXPERIENCE**

### **Florida Atlantic University (2005-present)**

Courses taught/developed:

- Introduction to GIS in Planning
- Planning for Hazards/Disasters (for Spring 2013)
- GIS Applications in Planning
- Managing GIS Projects
- In[form]ed City
- Planning Project
- Planning Workshop
- Advance Research
- Directed Independent Study

### **Cornell University (1997 – 2005)**

Courses taught/developed:

- Introduction to GIS
- GIS Applications Workshop
- Land Use Planning
- Introduction to Environmental Planning
- Environmental Justice and Web-GIS Workshop
- City and Regional Planning Workshop
- Introductory Planning Workshop

### **NCSU - Institute for Transportation Research and Education (1997)**

Instructor (Geographic Information Systems) – for North Carolina's planning and engineering professionals

### **University of North Carolina at Chapel Hill (1996)**

Co-Instructor (Spatial Analysis module in Quantitative Methods course)

### **University of Massachusetts, Amherst (1992-1995)**

*Academic courses:*

*Teaching Assistant (GIS for Planning and Design, 1992 -1993)*

*Professional Development courses:*

Coordinated and delivered a two-month training workshop in ARC/INFO to a group of Russian planners. Collaborative project between the University of Massachusetts and the Center of Regional Planning, Pskov Region, Russia. Funded by the Eurasia Foundation (*Office of Geographic Information and Analysis, 1994-1995*)

Training workshop for Indonesian research and development personnel. Funded by the Institute for Training and Development (ITD), Amherst, Massachusetts (1993-1994)

**STUDENT COMMITTEES (1997-)**

Ph.D. doctoral committees (12); Masters graduate committees (39); Undergraduate Honors thesis committees (3)

Year	Role/Number/Program
<b>Undergraduate Honors Thesis Committee (Cornell University)</b>	
2000	Chair, 1 Honors Thesis Committee, Urban and Regional Studies
2004	Chair, 2 Honor Thesis Committees, Urban and Regional Studies
<b>Graduate Thesis Committees (Cornell University)</b> <i>CRP = City and Regional Planning</i>	
1998	Chair, 1, CRP
1999	Chair, 2, CRP Member, 3, CRP
2000	Chair, 1, CRP Member, 4, CRP
2001	Chair, 6, CRP Member, 5, CRP
2002	Chair, 3, CRP Member, 2, CRP Member, 1, MPS
2003	Member, 3, CRP Member, 1, Natural Resources
2004	Chair, 2, CRP Member, 1, Historic Preservation Planning
2005	Chair, 3, CRP
<b>Graduate Thesis Committees (Florida Atlantic University)</b>	
2006	External Member, 1, Cornell University- CRP
2007-present	N/A (there is no thesis requirement in the Masters of Urban and Regional Planning Program at FAU). However, I have taught the Planning Project course that requires students to produce a modified version of a thesis.
<b>Dissertation Committees (while at Cornell; 1997-2005)</b>	
2001	Chair, 2, CRP (completed)
2002	Chair, 1, CRP (completed) Member, 1, Policy Analysis and Management
<b>Dissertation Committees (while at FAU; 2005-)</b> <i>Note: FAU School of Urban and Regional does not have a Ph.D. Program</i>	
2006	External member, 1, Columbia University Arts and Sciences (completed)
2006	External Member, 1, Cornell University- City and Regional Planning

	(completed)
2007	External Member, 1, Cornell University- City and Regional Planning (completed)
2010	External Member, 1, University of Illinois-Urbana Champaign – Urban Planning (completed)
2011	Member, 1, FAU School of Public Administration (completed)
2012	Chair, 2, FAU Department of Geosciences (in progress) External Member, 1, FIU Department of Sociology (in progress)

### **THESIS AND DISSERTATION TITLES**

#### **List of Ph.D. students**

##### **As Committee Chair (Cornell University, 1997-2005)**

1. Michelle Thompson, Ph.D. 2001 (CRP) – *“The Implications of Spatial Patterns and Policies for Residential Valuation in Boston, Massachusetts”*
2. Hoon Chang, Ph.D. 2001 (CRP) - *“Development of a Comprehensive Vulnerability Assessment Model for Local Communities using GIS”*
3. Frederick Addison. Ph.D. 2002 (CRP) - *“Evaluating an Action-Research Process for Sustainable Local Resource Management: Community-Based Land Use Planning and Management in Ghana”*

##### **As Committee Chair (Florida Atlantic University, 2005-)**

\*\* Note: FAU School of Urban and Regional Planning Program does not have a Ph.D. Program

1. Shivangi Prasad, Ph.D. candidate. (GeoSciences, FAU). “Vulnerability to Catastrophic Hurricanes in Low Probability- High Consequence Regions: An Analysis of the Northeastern United States” (in progress 2009-).
2. Christine Mitchell., Doctoral Candidate, GeoSciences, FAU. “Latino Migrant Livelihood Strategies and the Non-Timber Forest Product Saw Palmetto Berry Industry in South Florida” (in Progress; 2010-).

##### **As Minor member for Students at Other Universities (Florida Atlantic University, 2005-)**

1. Dong Keun Yoon, Ph.D. (Cornell University- City and Regional Planning). 2007. “The Impacts of Local Comprehensive Plans on Vulnerability to Disaster”
2. Harley Etienne, Ph.D. (Cornell University- City and Regional Planning). 2007. “The Role of Universities in Neighborhood Change: The Case of the University of Pennsylvania and West Philadelphia”
3. Ana Puszkin-Chevlin, Ph.D. (Columbia University- Arts and Sciences). 2006. “Determinants of Local Hazard Mitigation Policy and Built Environment Vulnerability: Three Case Studies from Florida’s Treasure Coast”.
4. Kanako Iuchi, Ph.D. (Urban Planning, University of Illinois-Urbana Champaign). 2010. “Redefining a Place to Live: Decisions, planning processes, and outcomes of resettlement after disasters”
5. Christopher Atkinson, Ph.D. (School of Public Administration, Florida Atlantic University). 2011. Evaluation of the Impact of Local Government Institutions on Business Resilience in Disaster.
6. Suzana Mic (Sociology, FIU). Dissertation proposal in progress.



### **As Minor member (Cornell University, 1997-2005)**

1. Eileen Robertson-Rheberg, Ph.D. (Cornell- PAM), 2002. *"Federal Funding and Community Development: an Evaluation of the Strategic Use of Community Development Block Grants in Upstate New York."*

### ***List of Masters students***

#### **As Committee Chair (Cornell University, 1997-2005)**

1. Prentiss Wuopermi Sayeweh. MRP, 1998. *"Combining a growth allocation model and GIS results to assess suitable diversity management areas: a prototype for Hudson Valley biodiversity program in New York State"*
2. Frederick Amoako Addison. MRP, 1999. *"Community-based land use planning and management in the Greater Afram Plains (GAP) of Ghana"*
3. Hideyuki Kasuya. MRP, 1999. *"Participatory Environmental Assessment and three HydroPower Cases in Laos and Vietnam"*
4. Carlos Gonzalez. MRP, 2000. *"Within Communities: The CrossRoad of Environmental and Social Justice, Community Participation and Education"*.
5. Wipas Wimonsate, MRP, 2000. *"Planning the Rattanakosin Area for both Tourists and Residents"*.
6. Tika Gurung, MRP, 2001. *"Parking and Land Use in the Collegetown Area"*.
7. Patricia Buendia, MRP, 2001. *"Toward a Sustainable Apurimac: Basis for a Land Use Plan"*
8. Hisao Yasui, MRP, 2001. *"Analysis for Reclaimed Water Use in Metropolitan Tokyo."*
9. Martha Wittosch, MRP, 2001. *"Is GIS Useful? An Evaluation of the Usefulness of GIS to the Planning Process in La Cuenca Cangrejal, Honduras"*.
10. Yizhao Yang, MRP 2001. *"Neighborhood Growth Stages and Housing Development: A Case Study of Ten Counties in the Hudson River Valley Area, New York State."*
11. Katherine Lizon, MRP 2001. *"Redeveloping Sacramento's Franklin Boulevard: An Inverse Application of Transit-Oriented Development Principles."*
12. Robin Heyduk, MRP 2002. *"Housatonic River Corridor Study: Recommendations for the Conservation Commission, Town of Stockbridge, Massachusetts."*
13. Ezra Cattan, MRP 2002. *"The Potential Role of Metropolitan Planning Organizations in Promoting Regionalism in Small Urbanized Areas"*.
14. Angus Jennings, MRP 2002. *"Flood Mitigation as Intergovernmental Innovation in a Massachusetts Watershed"*.
15. Roberta Robles. MRP, 2004. *"Public Sources of Geographic Information: Models of Dissemination at the State and Local Level."*
16. Kevin Denton. MRP, 2004. *Pre-Disaster Hazard Mitigation Planning: Organizing Resources, Addressing Risk and Mapping for the City of Ithaca, New York.*
17. Leila Aman. MRP, 2005. *"A GIS-Based Land Use Inventory of the Beaverton Regional Center for Metro's 2040 Centers Program, Portland, Oregon."*
18. Michael Brown. MRP, 2005. *"The Preliminary Planning and Mapping of the Brooklyn Waterfront Greenway."*
19. Ron Morad. MRP, 2005. *"Competition between Industrial and Urban Development Sectors in South Boston, Massachusetts."*

**As Minor Member (Cornell University, 1997-2005)**

1. Ken Shimizu, MRP, 1999. "Municipal Solid Waste Management and Informal Sector Activities in Rawalpindi, Pakistan"
2. Bradford Mueller, MRP, 1999. "Quality of Life or Quality of Place?: An Alternative Approach to Planning in the Creation of Community Indicators"
3. Yasushi Taira, MS, Regional Science, 1999. "Price as a Policy Tool for Irrigation Water Resource Management in the Kyrgyz Republic, Central Asia: A Linear Programming Analysis"
4. Andrea Eumei Yang, MRP, 2000. "Waste and Space: Beyond the NIMBY Discourse: The Political Ecology of Solid Waste in Santiago de Los Caballeros, La Republica Dominica"
5. Takashi Narita, MA, 2000. "Historic Preservation in the New Economy: Integrating Knowledge and Authenticity for Entrepreneurial Localities".
6. Ryan Harris, MRP, 2000. "Measuring Sprawl in Rhode Island: A GIS-Based Analysis of Land Use Change in the Pawcatuck River Watershed."
7. Lawrence Bice, MRP, 2000. "Getting the word Out: A Critical Analysis of Signage and Symbolism in Rochester's Public Transportation System."
8. Jessica Feldman, MA (HPP), 2001. "Exploring the Controversy Regarding Cell Tower Siting: Two Case Studies"
9. David Noguera, MRP, 2001. "Getting Connected: ICT and Economic Development: a Proposal for South Africa's Telecentres"
10. Namiko Kimura, MRP, 2001. "Environmental Impact of Urbanization in Hanoi: 1986-2000"
11. Nipawan Nitiprapra, MRP, 2001. "Public Space Redesign Recommendations for Ithaca's Urban Core."
12. Kim Law, MPS, 2001. "Developing a Web-based Geographic Information System Forage Selection Tool for the Finger Lakes National Forest"
13. Umunyana Rugege, MPS 2002. "Municipal Solid Waste Management in Urban Centers of the Developing World."
14. Keith Bonar, MRP, 2002. "A Sense of Place at the Presidio of San Francisco."
15. Joan Chen, MRP, 2002. "The Struggle for the Preservation of Community Gardens in New York City: A Case Study of the Lower East Side."
16. Anderson, Kevin. MRP, 2003. *Community Planning and Nonpoint Source Pollution: Building a Foundation for New York Sea Grant's Coastal Communities Development Program*
17. Crystal M. Buck. MRP 2003. "Development Pressure and Land Quality: Identifying Land for Protection in Schuyler county using GIS."
18. Anthony Fusarelli. MRP 2003. "Making the Private Waterfront Public: An Evaluation of Public Access Sites in Stamford Connecticut over Two Decades."
19. Zev Ross. M.S. (Natural Resource Management), 2003. Mapping Disease: A Geostatistical Analysis of California Breast Cancer Rates.
20. Carey L. Jones. MA (Historic Preservation Planning), 2004. It's About Time: The use of Geographic Information Systems for Historic Preservation Planning."

**As Minor member for Students at Other Universities (Florida Atlantic University, 2005-)**

\*\* Note: FAU School of Urban and Regional Planning Program does not have a thesis requirement for students in the Masters of Urban and Regional Planning Program).

1. Kanako Iuchi. MRP, 2006. "Earthquake Impact Mitigation in Poor Urban Areas: Problems and Opportunities in Metropolitan Manila"

### **List of Undergraduate Honors Thesis**

1. Katherine Lizon, 2000. "Laguna West at the Turn of the Century: An Evaluation of Neotraditional Design Implementation"
2. Li Ann Ho. May 2004. "The Evolution of South East Asia's Garden City: An Exposition on Green Planning in Singapore"
3. Holly LaDue and Laura Shagalov. May 2004. "What about the Backyard? Reconnecting an Abandoned Space with the Mission of the Telluride House, Ithaca, New York."