

David M Iwaniec
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Arizona State University
School of Sustainability
Tempe, AZ 85287

Education:

- current Doctorate of Philosophy: Sustainability, Arizona State University,
Tempe, AZ 85287 (Advisor: Jianguo Wu)
- 2008 Master of Science: Biological Sciences, Florida International University,
Miami, FL 33199 (Advisor: Daniel L. Childers)
 Title: Investigating ecosystem regulation and organization using
 periphyton from the Florida Everglades, USA
- 2002 Bachelor of Science: Biological Sciences, Florida International University,
Miami, FL 33199

Funding and Honors:

- 2008 NSF IGERT Fellowship, Urban Ecology
- 2005 NCEAS Follow-up Proposal Grant
 Title: Quantifying Success in Environmental Management using
 Ecosystem Services Valuation Techniques – A Joint Session between
 the Ecosystem-based Management and the LTER Ecosystem Services
 NCEAS Working Groups
- 2005 NCEAS Follow-up Proposal Grant
 Title: Boundary and Scale Analysis in Ecosystem Based Management
- 2004 EPA STAR Fellowship
 Title: Regulation of Structure and Function of Periphyton from the Florida
 Everglades, USA
- 2002 Student Presentation Award, FCE LTER Research All Scientists Meeting
- 2000 NSF Research Experience for Undergraduate Grant
- 1999 Student Presentation Award, Estuarine Research Federation
- 1999 Student Travel Award, Estuarine Research Federation and NSF Grant
- 1998 ScienceOne Academic Scholarship

Professional Experience:

- 2009 Member of the Executive Board and Chair of the Marketing and Promotions
 Committee, The Phoenix Permaculture Guild
- 2007 – 2008 Member of the Information Management Advisory Committee, Florida Coastal
 Everglades Long Term Ecological Research (FCE LTER)

2006	Graduate Teaching Assistant, Florida International University Undergraduate-level course Ecology Lecture TA and Lab Instructor (Topics: Population, community, ecosystem and landscape ecology)
2005 – 2007	Participant in Invited Workshop: Understanding, valuing, and managing dynamic ecosystem services under stress: synthesizing across the LTER Network, NCEAS
2005 – 2006	Vice President of Biological Sciences Graduate Student Organization, Florida International University
2004 – 2008	Founding Member of EcoTank and Member of the EcoTank Management Board (graduate student led NCEAS inspired ecological working groups), Florida International University
2004 & 2006	Guest Lecturer, Florida International University Graduate-level course Advanced Ecology II (Topic: Information theory)
2004 – 2005	Participant in Invited Workshop: Knowledge and capacity-building to support ecosystem-based management for sustainable coastal-marine systems, NCEAS
2003 – 2008	Volunteer for FCE Schoolyard Outreach Program (K-12), FCE LTER
2003 – 2007	Site Representative for FCE LTER Student Group, LTER Network
2003 – 2005	President of FCE LTER Student Organization, FCE LTER and Florida International University
2002 – 2008	Information Management Staff, FCE LTER
2002 – 2008	Graduate Research Assistant, Florida International University Ecosystems Ecology Lab RA (Topics: Ecosystem modeling and data synthesis)
2002 – 2003	University Graduate Student Association Representative for FCE LTER Student Organization, Florida International University
2001 – 2008	Member of the FCE LTER Student Organization, FCE LTER and Florida International University
1998 – 2002	Undergraduate Research Assistant, Florida International University Ecosystems Ecology Lab RA (Topics: Biomass, primary production, water quality, and hydrology in freshwater Everglades, tree-islands, mangrove ecotone and Florida Bay)

Professional Memberships:

Ecological Society of America

Estuarine Research Federation

Global Lake Ecological Observatory Network

LTER Network, Central Arizona-Phoenix & Florida Coastal Everglades LTER

New England Complex Systems Institute

Presentations:

- 1999 Iwaniec, D., D.L. Childers. 1999. Spatial variation in periphyton productivity associated with water quality in the Southern Everglades. Tropical Biology Program at FIU, Miami, FL. (Poster)
- 2000 Iwaniec, D., D.L. Childers, Stephen E. Davis. 2000. Spatial and water source effects on ecosystem-level processes in Everglades marsh periphyton assemblages. LTER All Scientists Meeting, Snowbird, UT. (Poster)
- 2000 Iwaniec, D., D.L. Childers. 2000. Landscape location and water source effects on ecosystem-level processes in Everglades marsh periphyton assemblages. International Association of Landscape Ecology, Ft. Lauderdale, FL. (Poster)
- 2001 Iwaniec, D., D.L. Childers. 2001. Landscape location and water source effects on periphyton metabolism. Estuarine Research Federation, St. Petersburg, FL. (Poster)
- 2002 Iwaniec, D., D.L. Childers. 2002. Everglades periphyton dynamics and water quality. FCE LTER All Scientists Meeting, Miami, FL. (Poster and Oral Presentation)
- 2003 Iwaniec, D. 2003. Plant ecology of wetlands and tree hammocks of the Everglades. Hands on the Everglades, Everglades National Park, Miami, FL. (Invited Speaker)
- 2003 Iwaniec, D.L., D.L. Childers. 2003. Ecosystem-level processes in Everglades marsh periphyton assemblages. LTER All Scientists Meeting, Seattle, WA (Poster)
- 2003 Iwaniec, D., D.L. Childers. 2003. Water quality effects on ecosystem-level processes in Everglades marsh periphyton assemblages. Society of Wetland Scientists, New Orleans, LA. (Oral Presentation)
- 2004 Iwaniec, D., D.L. Childers. 2004. Investigating ecosystem self-organization and self-regulation using periphyton from the Florida Everglades, U.S.A. 7th INTECOL International Wetlands Conference, Utrecht, Netherlands. (Poster)
- 2004 Iwaniec, D. 2004. Regulation of structure and function of periphyton from the Florida Everglades. Environmental Protection Agency STAR Graduate Fellowship Conference, Washington, DC. (Poster)
- 2005 Iwaniec, D., D.L. Childers. 2005. Hydrological and water quality controls on ecosystem-level periphyton mat dynamics in the southern Everglades. Ecological Society of America, Montreal, Canada. (Oral Presentation)
- 2005 Dewsbury, B., P. Gibson, C. Goss, D. Green, D. Iwaniec*, K. Stanaway, J. Wozniak*, and D.L. Childers. 2005. Developing a graduate student think tank framework: "to enhance ecological understanding through a collective intellect." LTER Graduate Student Collaborative Research Symposium, H.J. Andrews Experimental Forest, OR. (Poster)

- 2005 Iwaniec, D., B. Dewsbury, P. Gibson, C. Goss, D. Green, K. Stanaway, J. Wozniak, and D.L. Childers. 2005. Florida Coastal Everglades - ecosystem based management working group. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA. (Oral Presentation)
- 2005 Dewsbury B., P. Gibson, C. Goss, D. Green, D. Iwaniec*, K. Stanaway, J. Wozniak* and D.L. Childers. 2005. Ecosystem based management and the comprehensive everglades restoration plan: a graduate distributed seminar analysis. FCE LTER All Scientist Meeting, Coral Gables, FL. (Poster)
- 2005 Iwaniec, D., D.L. Childers. 2005. Regulation of microbial mats in the oligotrophic freshwater southern Everglades. Estuarine Research Federation, Norfolk, VA. (Poster and Oral Presentation)
- 2006 Iwaniec, D., D.L. Childers. 2006. Water quality and hydrogeology regulation of microbial mats in Everglades' Taylor Slough Basin. FCE LTER All Scientists Meeting, Coral Gables, FL. (Poster)
- 2007 Iwaniec, D., D.L. Childers. 2007. Controls on stability and resilience of microbial mats from the Florida Everglades. Estuarine Research Federation, Providence, RI. (Oral Presentation)

Publications:

- 1999 Childers, D.L., D. Iwaniec, F. Parker, D. Rondeau, C.J. Madden. 1999. How freshwater Everglades wetlands mediate the quality of recently enhanced water inflows to the Florida Bay estuary. *Gulf Research*. 11(1):70.
- 2006 Iwaniec, D., D.L. Childers, D. Rondeau, and C. Madden. 2006. Effects of hydrologic and water quality drivers on periphyton dynamics in the southern Everglades. *Hydrobiologia*. 569(1):223.
- 2006 Childers, D.L., D. Iwaniec, D. Rondeau, G. Rubio, E. Verdon and C.J. Madden. 2006. Responses of sawgrass and spikerush to variation in hydrologic drivers and salinity in Southern Everglades marshes. *Hydrobiologia*. 569(1):273.
- 2006 Ewe, S.M.L., E.E. Gaiser, D.L. Childers, V. H. Rivera-Monroy, D. Iwaniec, and R.R. Twilley. 2006. Spatial and temporal patterns of aboveground net primary productivity (ANPP) along two freshwater-estuarine transects in the Florida Coastal Everglades. *Hydrobiologia*. 569(1):459.
- In Prep. Cook, E., N. Grimm, Hale, R., and Iwaniec, D. Urbanization and the altered biogeochemical cycle. In: X. Bai, T. Graedel, and A. Morishima (eds). *Cities in Evolution: Urbanization, Environmental Change and Sustainability*. Cambridge University Press.
- In Prep. Iwaniec, D., D.L. Childers, and R.E. Ulanowicz. Controls on stability and resilience of microbial mats from the Florida Everglades, USA. *Aquatic Microbial Ecology*.
- In Prep. Iwaniec, D., D.L. Childers, M. Ikenaga, D. Rondeau, and E. Gaiser. Nutrient enrichment effects on periphyton community structure, metabolic rates and nutrient cycling. *Freshwater Biology*.
- In Prep. Iwaniec, D., D.L. Childers, D. Rondeau, N. Maie, Y. Yamashita, and R. Jaffé. Characterization of dissolved organic matter production and uptake by periphyton communities. *Limnology and Oceanography*.