

CURRICULUM VITAE

*Kelly Chinnners Reiss*

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**EDUCATION**

2004	Doctor of Philosophy University of Florida <i>Developing biological indicators for isolated forested wetlands in Florida</i>	Environmental Engineering Sciences Gainesville, Florida
2000	Master of Science University of Florida <i>The role of vines in the successional development of constructed reclaimed forested wetlands in the central Florida phosphate district</i>	Environmental Engineering Sciences Gainesville, Florida
1998	Bachelor of Science, with honors University of Florida	Forest Resources and Conservation Gainesville, Florida

**PROFESSIONAL EXPERIENCE**

Jan. 2009-Present	Adjunct Instructor, School of Science and Technology American Public University System Charles Town, West Virginia
July 2006-Present	Lecturer, School of Natural Resources and Environment University of Florida Gainesville, Florida
May 2004-Aug. 2009	Postdoctoral Associate, Environmental Engineering Sciences University of Florida Gainesville, Florida
Aug. 1998-Apr. 2004	Graduate Assistant, Environmental Engineering Sciences University of Florida Gainesville, Florida
Oct. 1997-Dec. 1998	Silviculture Laboratory Research Assistant Dr. E Jokela, School of Forest Resources and Conservation University of Florida Gainesville, Florida
May-Aug. 1997	Intern in Land Management, Env. Resources Management Palm Beach County Lake Worth, Florida

## **PUBLICATIONS**

- Reiss, KC**, MT Brown, and CR Lane (2009, online first) *Characteristic Community Structure of Florida's Subtropical Wetlands: The Florida Wetland Condition Index for Depressional Marshes, Depressional Forested, and Flowing Water Forested Wetlands*. Wetlands Ecology and Management. DOI: 10.1007/s11273-009-9132-z
- Reiss, KC**, E Hernandez, MT Brown (2009, in press) *Evaluation of Permit Success in Wetland Mitigation Banking: A Florida Case Study*. Wetlands
- Lane, CR, **KC Reiss**, S Decelles, MT Brown (2009, in press) *Benthic Diatom Composition in Wet and Dry Isolated Ephemeral Forested Wetlands: Implications for Monitoring and Assessment*. Ecological Indicators DOI:10.1016/j.ecolind.2008.12.010
- Nelson, M, S Silverstone, **KC Reiss**, P Burrowes, R Joglar, M Robertson, and T Vakil, (2009, in press) *The Impact of Hardwood Line-Planting on Tree and Amphibian Diversity in a Secondary Subtropical Wet Forest of Southeast Puerto Rico*. Journal of Sustainable Forestry 29(4)
- Reiss, KC** (2008) *Wetland Mitigation: Which Function?* Water Resources IMPACT 10(5):4-6
- Reiss, KC**, and MT Brown (2007) *An Evaluation of Florida Depressional Wetlands: Application of USEPA Levels 1, 2, and 3 Assessment Methods*. EcoHealth 4:206-218
- Reiss, KC** (2006) *The Macrophyte Wetland Condition Index for Florida Depressional Forested Wetlands*. Ecological Indicators 6: 337-352
- Cohen, MJ, CR Lane, **KC Reiss**, JA Surdick, E Bardi, and MT Brown (2005) *Vegetation based Classification Trees for Rapid Inference of Isolated Wetland Condition*. Ecological Indicators 5:189-206
- Nelson, M, S Silverstone, **KC Reiss**, T Vakil, M Robertson (in preparation) *Performance of Line Planted Mahogany and Blue Mahoe in Puerto Rico*

## **RESEARCH REPORTS**

- Reiss, KC**, J Evans, MT Brown (2009) *Draft Synthesis Report: Summary of the Available Literature on Nutrient Concentrations and Hydrology for Florida Isolated Wetlands*. Final Report to the Florida Department of Environmental Protection, under contract #WM-942
- Reiss, KC**, E Hernandez, and MT Brown (2007) *An Evaluation of the Effectiveness of Mitigation Banking in Florida: Ecological Success and Compliance with Permit Criteria*. Final Report to the Florida Department of Environmental Protection, under contract #WM-881
- Bardi, E, MT Brown, **KC Reiss**, and MJ Cohen (2005) *UMAM Training Manual: web based training manual for Chapter 62-345, FAC for wetlands permitting*. Final Product to the Florida Department of Environmental Protection, under contract #WM-683
- Reiss, KC**, and M.T. Brown (2005) *The Florida Wetland Condition Index (FWCI): Developing Biological Indicators for Isolated Depressional Forested Wetlands*. Final Report to the Florida Department of Environmental Protection, under contract #WM-683

**Reiss, KC**, and M.T. Brown (2005) *The Florida Wetland Condition Index (FWCI): Preliminary Development of Biological Indicators for Forested Strand and Floodplain Wetlands*. Final Report to the Florida Department of Environmental Protection, under contract #WM-683

**Reiss, KC** (2004) *Developing Biological Indicators for Isolated Forested Wetlands in Florida*. Ph.D. Dissertation. Department of Environmental Engineering Sciences, University of Florida., Gainesville, Florida

**Reiss, KC** (2002) *The role of vines in the successional development of reclaimed forested Wetlands*. In MT Brown and SM Carstenn, editors. *Successional Development of Forested Wetlands on Reclaimed Phosphate Mined Lands in Florida*. Report to the Florida Institute of Phosphate Research, Pub. No. 03-131-193. Center for Wetlands, University of Florida, Gainesville, Florida

**Reiss, KC** (2000) *The Role of Vines in the Successional Development of Constructed Reclaimed Forested Wetlands in the Central Florida Phosphate District*. Masters Thesis. Department of Environmental Engineering Sciences, University of Florida, Gainesville, Florida

## **CONFERENCE PROCEEDINGS**

**Reiss, KC**, E Hernandez, and MT Brown (2007) *Evaluating the Ecological Integrity of Wetlands in Florida Wetland Mitigation Banks*. Conference Proceedings, 33<sup>rd</sup> Annual Conference on Ecosystem Restoration and Creation, Tampa, Florida.

**Reiss, KC** (2003) *The Role of Vines in the Successional Development of Reclaimed Forested Wetlands in Florida*. Conference Proceedings, 30<sup>th</sup> Annual Conference on Ecosystem Restoration and Creation, Tampa, Florida.

## **PRESENTATIONS**

**Reiss, KC** (2009; 2008; 2007) *UMAM: Uniform Mitigation Assessment Method*. Guest Lecture in LAW6930 Wetlands and Watersheds: Science, Law and Policy. University of Florida, Gainesville, Florida.

**Reiss, KC**, E Hernandez, MT Brown (2008) *Assessing Current Ecological Condition in Florida Wetland Mitigation Banks*. 35<sup>th</sup> Annual Conference on Ecosystems Restoration and Creation, Hillsborough Community College, Plant City, Florida.

**Reiss, KC**, and E Hernandez (2007) *An Evaluation of the Effectiveness of Mitigation Banking in Florida: Ecological Success and Compliance with Permit Criteria, Chapter 4: Determination of Ecological Integrity*. National Wetlands Monitoring and Assessment Work Group (NWMAWG) Teleconference.

**Reiss, KC**, E Hernandez, MT Brown (2007) *Do Florida Wetland Mitigation Banks Return Full Wetland Function: Interpretation of Biological Assessments and Permit Review*. Center for Wetlands Fall Lecture Series, University of Florida.

**Reiss, KC**, E Hernandez, and MT Brown (2007) *Consideration of Landscape Location for Wetland Mitigation Banks: A Landscape Development Intensity Perspective*. Society of Wetland Scientists 2007 SWS International Conference. Sacramento, California.

- Brown, MT, and **KC Reiss** (2007) *Characteristic Community Structure of Florida's Subtropical Wetlands: The Florida Wetland Condition Index*. Society of Wetland Scientists 2007 SWS International Conference. Sacramento, California.
- Reiss, KC** (2006) *Measuring Biological Integrity in Florida's Wetlands*. Guest Lecture, ALS5932 Principles of Natural Resource Management, University of Florida, Gainesville, Florida.
- Reiss, KC** (2005) *Assessing Wetland Function*. UMAM Short Course. University of Florida, Gainesville, Florida.
- Reiss, KC** (2005) *UMAM Training Manual and New Tools*. Biocriteria Committee through the Florida Department of Environmental Protection. Doyle Conner Building, Gainesville, Florida.
- Reiss, KC** (2004) *The Florida Wetland Condition Index: Perceptions of Ecological Integrity*. Center for Wetlands Fall Lecture Series, University of Florida.
- Reiss, KC** (2004) *Wetlands on Clay Settling Areas: Progress Report 3 of Summer Field Season*. Florida Institute of Phosphate Research, Technical Advisory Committee, Bartow, Florida.
- Reiss, KC** (2004) *The Florida Wetland Condition Index for Isolated Freshwater Forested Wetlands*. Society of Wetland Scientists 25<sup>th</sup> Annual conference. Seattle, Washington.
- Reiss, KC** (2003) *The Role of Vines in the Successional Development of Reclaimed Forested Wetlands in Florida*. 30<sup>th</sup> Annual Conference on Ecosystem Restoration and Creation. Tampa, Florida.
- Reiss, KC**, and MT Brown (2003) *A Biological Assessment of Forested Wetlands in Florida*. Society of Wetland Scientists 24<sup>th</sup> Annual conference. New Orleans, Louisiana.

## CONTRIBUTED PRESENTATIONS

- Lane\*, CR, KC Reiss, S Decelles, and MT Brown (2008) *Benthic Diatom Composition in Wet and Dry Isolated Forested Wetlands: Implications for Monitoring and Assessment*. Society of Wetland Scientists 2008 SWS International Conference. Washington, D.C.
- Deimeke, EA, KC Reiss, MJ Cohen\*, MT Brown (2008) *Landscape Inference of Conservatism Coefficients for Evidence-Based Floristic Quality Assessment*. Society of Wetland Scientists 2008 SWS International Conference. Washington, D.C.
- Hernandez\*, E, KC Reiss, and MT Brown (2007) *Ecological Integrity of Wetlands in Florida Wetland Mitigation Banks*. 2007 Coastal Plain Chapter, Society of Ecological Restoration, Annual Symposium and Membership Meeting, Apalachicola, Florida.
- Carstenn\*, S, and KC Reiss (2007) *College and University Education in the United States*. China.
- Hernandez\*, E, KC Reiss, and MT Brown (2006) *Evaluating the Ecological Integrity of Wetlands in Florida Wetland Mitigation Banks*. 33<sup>rd</sup> Annual Conference on Ecosystems Restoration and Creation, Hillsborough Community College, Plant City, Florida.

\*indicates presenter

## ***INSTRUCTIONAL EXPERIENCE***

American Public University System  
School of Science and Technology  
EVSP311 Soil Science  
EVSP322 Remote Sensing and Geographic Information Systems  
EVSP501 Environmental Management  
EVSP503 Environmental Policy, Regulation, and Law  
Charles Town, West Virginia

University of Florida  
School of Natural Resources and Environment  
EVS3000 Environmental Science  
EVR6320 Principles of Natural Resource Management  
Department of Environmental Engineering Sciences  
EES3000L Environmental Science and Humanity Laboratory  
EES4102L Environmental Biology Lab  
EES6308C Wetlands Ecology  
Gainesville, Florida

University of Florida  
Mid-Florida Research & Education Center  
SOS3022L Introduction to Soils in the Environment Lab  
Apopka, Florida

## ***STUDENT RESEARCH COMMITTEES***

Garett Pignotti  
Department of Environmental Engineering Sciences, University of Florida, undergraduate honor's thesis  
Fall 2008

Benjamin Atkinson  
School of Natural Resources and Environment, Florida Museum of Natural History, University of Florida, Master's Thesis: *Community Ecology of Creek-Dwelling Freshwater Turtles at Nokuse Plantation, Florida*  
Summer 2009

Elizabeth Deimeke  
School of Natural Resources and Environment, School of Forest Resources and Conservation, University of Florida, Master's Thesis: *Efficacy of condition assessments to evaluate wetland ecosystem function*  
Expected Fall 2009

## ***SKILLS AND TRAINING***

- ❖ Project management
- ❖ Experience with multiple statistical packages, including Minitab Statistical Software, PC-ORD (useful for multivariate statistical analyses), Analyse-It for Microsoft Excel
- ❖ Knowledge of Garmin GPS units, and YSI dissolved oxygen, pH, and conductivity meters
- ❖ Knowledgeable in Map Factory Works, ArcView 3.2, and ArcGIS

- ❖ Laboratory analysis and chemical preparation, including:
  - Potassium chloride and Mehlich III extraction procedures for soil nutrients
  - Potassium sulfate/mercuric oxide soil digestion in preparation for total Kjeldahl nitrogen and total phosphorus determination
  - Analysis of soil phosphorus and nitrogen using the BRAN+LUBBE AA3 AutoAnalyzer
  - Basic laboratory procedures and safety training
- ❖ Knowledge of ecological modeling techniques in Microsoft Excel, some experience with Basic and Extend software packages
- ❖ Florida Division of Forestry, Florida Fire Behavior Certificate of Training, 1997
- ❖ Project Learning Tree certificate of training, 1997
- ❖ National Wildlife Federation Endangered Species Conference, University of Florida Environmental Action Group Representative, Washington, D.C., 1996

### ***PROFESSIONAL INTERESTS***

- ❖ Reviewer:
  - Aquatic Ecology
  - Water, Air, and Soil Pollution
  - Book of Proceedings 5<sup>th</sup> International Workshop Advances in Energy Studies
  - Bentham Science Publishers, e-books
  - Indo-US Science and Technology Forum
- ❖ Abraham Lincoln Middle School Science Fair Judge, 2006
- ❖ Ecological Society of America, member since 2003
- ❖ Society of Wetland Scientists, member since 2003
- ❖ American Ecological Engineering Society, member 2001-2002
- ❖ Gamma Sigma Delta, The Honor Society of Agriculture, 1998
- ❖ Forestry Student Government, Treasurer, 1998
- ❖ Golden Key National Honor Society, member 1997
- ❖ Society of American Foresters, member 1997-1998

### ***SCHOLARSHIPS AND AWARDS***

- ❖ Internationalizing the Curriculum, University of Florida course enhancement award \$3,000 for EVS3000 Environmental Science, Spring 2007
- ❖ University of Florida, President's Honor Roll, Spring 1998
- ❖ United States Achievement Academy, All-American Scholar Collegiate Award nominee, Spring 1998
- ❖ Rayonier Senior Scholarship, 1997
- ❖ J.B. Adkins Memorial Scholarship Award, Fall 1997
- ❖ University of Florida Valedictorian Scholarship, Fall 1994
- ❖ South Florida Fair Scholarship, Fall 1994
- ❖ Florida Academic Scholarship, 1994-1998
- ❖ Advanced Placement Scholar with Honor, 1994