

CURRICULUM VITAE

Mark Edward Welch

*Mississippi State University
Associate Professor of Biological Sciences*

Education

Ph.D.	Indiana University	2002	Ecology and Evolutionary Biology
M.S.	University of Tennessee	1997	Ecology
B.S.	University of Tennessee	1993	Biology

Appointments

Graduate Coordinator August 2014 – Present, Mississippi State University, Department of Biological Sciences.

Associate Professor August 2013 – Present, Mississippi State University, Department of Biological Sciences.

Assistant Professor August 2007 – August 2013, Mississippi State University, Department of Biological Sciences.

Postdoctoral Research Associate, November 2004 – July 2007, Vanderbilt University, Department of Biological Sciences.

NSF Biological Informatics Research Fellow, November 2002–October 2004, Vanderbilt University, Department of Biological Sciences.

Recent Relevant Publications

Welch has over 20 publications. Those relevant to iguana conservation published in the past four years are provided here.

*Indicates Graduate Students Working in the Welch Lab

*Martin, J.L., C.R. Knapp, G.P. Gerber, R.S. Thorpe, **M.E. Welch**. (Accepted pending revision) Phylogeography of the Endangered Lesser Antillean iguana, *Iguana delicatissima*: A recent diaspora in an archipelago known for ancient herpetological endemism. *Journal of Heredity*

*Colosimo, G., C.R. Knapp, L.E. Wallace, and **M.E. Welch**. 2014. Inferred vs Realized Patterns of Gene Flow: an Analysis of Population Structure in the Andros Island Rock Iguana. *PLoS ONE* 9: e106963

*Berk, J.W. 2013. Inbreeding and heterozygosity-fitness correlations in a small, isolated population of Turks and Caicos Rock Iguanas, *Cyclura carinata*. Thesis, Mississippi State University. ProQuest, UMI Dissertations Publishing. 1543323

Welch, M.E., *A. Rasberry, T. Grant, R. Van Veen, O. Robinson, D. Fleuchaus, and B. Wilson. 2012. Assessing the Genetic Impact of Headstarting and Potential for Mitigation in the Jamaican Iguana, *Cyclura collei*. *Reptiles & Amphibians* 19: 228-229

Welch, M.E., G.J. Long, *J.W. Berk, A.H. Getz, G.P. Gerber, and L.E. Wallace. 2011. Twenty-nine Polymorphic Microsatellite Loci in *Cyclura carinata*, the Turks and Caicos Iguana, a Critically Endangered Island Endemic. *Conservation Genetics Resources* 3: 209-212

Relevant Grants Funded

Welch has received over \$500,000 worth of grants and support. Support relevant to iguana conservation research is provided here.

*Indicates Graduate Students Working in the Welch Lab

*Carreras De León, R., M.E. Welch. Genetic structure and nesting behavior of *Cyclura ricordii*, and implications for its conservation. Instituto Tecnológico de Santo Domingo (INTEC). 3/1/2014-12/31/2014. **\$5,000**

Wilson, B., R. van Veen, L. Samson, K. Williams, D. Goldson, M. Gold, R. Hudson, N. Lung, O. Robinson, T. Grant, D. Fleuchaus, **M.E. Welch (Co-PI)**, A. Sharma, K. McLaren, K. Stephenson. Jamaican Iguana Recovery Programme. Disney Wildlife Conservation Fund. 11/1/2012-10/31/2013. **\$25,000**

*Colosimo, G., **M.E. Welch**, L. Wallace, C. Knapp. A genetic assessment of conservation management for the Andros Rock Iguana, island endemic in a heavily fragmented landscape. The Mohamed bin Zayed Species Conservation Fund. 10/1/12-9/30/13. **\$5,000**

Welch, M.E. (PI), L.E. Wallace, B. Wilson, C Knapp, T. Grant, and R. van Veen. Microsatellite Development and Characterization for Three Endangered Caribbean Iguanas. The Mohamed bin Zayed Species Conservation Fund. **\$10,000**. 3/1/2012-2/28/2014 (**All Funds to Welch and Wallace**)

Grant, T., **M.E. Welch**, and B. Wilson, Genetic Analysis to Inform Captive Breeding Recommendations. Fresno Chaffee Zoo Wildlife Conservation Grant. 9/1/2011-8/31/2012 **\$1,213**

Welch, M.E. (PI), B. Wilson, T. Grant, and R. van Veen. Genetic Assessment of the Headstart Program for the Jamaican Iguana, *Cyclura collei*. The Mohamed bin Zayed Species Conservation Fund. 5/1/2010-12/31/2010 **\$4,981**.

Gerber, G.P., **M.E. Welch (Co-PI)**. Population monitoring, post-hurricane impact assessments, and reproductive ecology of the Turks and Caicos iguana. International Iguana Foundation. 1/1/2009-12/31/2009. **\$8,100**

Welch, M.E. (PI). Establishing *Cyclura carinata* as a model system for studying the long-term effects of small population size. Mississippi State University, Office of Research and Economic Development Research Initiation Program (RIP). 1/1/2009-12/31/2009. **\$10,000**

Society Affiliations

The American Association for the Advancement of Science (AAAS)

The Society for the Study of Evolution

The Ecological Society of America

The Botanical Society of America

IUCN SSC Iguana Specialist Group

International Reptile Conservation Foundation

The European Society for Evolutionary Biology

HANNAH MADDEN

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CAREER OBJECTIVE

My career objective is to maximize my contribution to the ecological sustainability of biodiversity on St. Eustatius.

WORK EXPERIENCE

ST. EUSTATIUS NATIONAL PARKS, GALLOWS BAY, ST. EUSTATIUS

Terrestrial Areas Manager

June 2014 - Present

- Terrestrial biodiversity monitoring: analyzing data and writing reports; writing funding proposals; operating as part of the Management Team and representing the organization at Board meetings; working with visiting scientists and researchers; managing staff, interns and volunteers; giving public talks; writing (social) media articles.

National Park Ranger

December 2006 - June 2014

- Terrestrial biodiversity monitoring; maintaining hiking trails; giving guided hikes; managing interns and volunteers; working with visiting scientists and researchers; responsible for five after-school nature educational programs, teaching environmental education at elementary schools; writing (social) media articles.

CHILD HELPLINE INTERNATIONAL, AMSTERDAM, NOORD-HOLLAND, THE NETHERLANDS

Office Manager

March 2005 - March 2006

- Finance, administration and logistics.

AMNESTY INTERNATIONAL, AMSTERDAM, NOORD-HOLLAND, THE NETHERLANDS

Development/Audio-visual Assistant

February 2002 - March 2005

- Research, administration and outreach.

EDUCATION

THE OPEN UNIVERSITY, UNITED KINGDOM

BSc Environmental Studies

THE UNIVERSITY OF THE WEST INDIES, TRINIDAD

*MSc Biodiversity Conservation and Sustainable Development in the Caribbean
Candidate*

ADDITIONAL SKILLS

- PADI Rescue Diver
- Qualified tour guide
- Mother tongue: English; Fluent Dutch; Basic French and Spanish
- Clean, current driver's license

PUBLICATIONS

- The Lesser Antillean Iguana on St. Eustatius: A 2012 Population Status Update & Causes for Concern (A. Debrot, E. Boman & H. Madden), International Reptile Conservation Foundation, 2013.
- Important Bird Areas in the Caribbean Netherlands (7 authors including H. Madden), IMARES, 2013.
- Preliminary Checklist of the Bees of St. Eustatius (S. Bush & H. Madden), *Insecta Mundi*, 2013.
- Notes on the Flowers and Distribution of the Caribbean Island Endemic *Ipomoea sphenophylla* (Convolvulaceae) (S. Bush & H. Madden), *Harvard Papers in Botany*, 2012.
- The Scorpions of Sint Eustatius, Lesser Antilles (R. Teruel & H. Madden), *Euscorpius*, Marshall University, 2012.
- The Hiker's Guide to the Quill/Boven National Parks (H. Madden & N. Esteban), St. Eustatius National Parks, 2008.

VOLUNTARY ACTIVITIES

- Board President, Mega D Youth Foundation, St. Eustatius (2010 – present).
- Chair, Caribbean Iguana Steering Committee, Caribbean Region (2013 – present).
- Board member, Dutch Caribbean Nature Alliance, Caribbean Netherlands (2014 – present).
- Member, St. Eustatius Sustainability Committee, St. Eustatius Tourism Development Foundation, St. Eustatius (2013 – present).
- Creator of www.natureonstatia.com, a website documenting the flora and fauna of the island.