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**CURRICULUM VITAE**
***EDUCATION***

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|-----------------------|-------------------------------|-------------------------------|
| Ph.D. Biology         | Masters of Biology            | Bachelors of Science          |
| Washington University | University of Central Florida | University of Central Florida |
| Advisor: Allan Larson | Advisors: L.M. Ehrhart and    | May, 2002                     |
| May 2010              | Christopher Parkinson         |                               |
|                       | May 2005                      |                               |

Postdoctoral Fellow  
 University of California at Santa Cruz  
 August 2010-November 2011

Postdoctoral Fellow  
 University of Central Florida  
 November 2011 to 2013

Assistant Professor of Biology  
 Valdosta State University  
 August 2013-Present

***MANUSCRIPTS CURRENTLY IN REVIEW***

Reece, J., Alansari, A., Kalkvik, H.M., AlKindi, A., Mahmoud, I., Al Kiyumi, A., Elshafie, A., and Parkinson, C.L. A survey of the genetic diversity of the Loggerhead and Green Sea Turtles of Oman. *Chelonian Conservation Biology*.

Reece, J., Fauth, J.E., Downs, C.A., and Ehrhart, L.M. Cellular diagnostics and health of juvenile green turtles (*Chelonia mydas*): identifying environmental cofactors of fibropapillomatosis. *Marine Environmental Research*.

***PEER REVIEWED PUBLICATIONS***

Collar, D., Reece, J., Mehta, R., Alfaro, M., Wainwright, P. (in press) Imperfect Convergence in Morphological Systems: Variable Responses among Cranial Structures Underlie Transitions to Durophagy in Moray Eels. *American Naturalist*.

Reece, J., Passeri, D., Ehrhart, L.M., Hagen, S., Hays, A., Long, C., Noss, R., Bilskie, M., Sanchez, C., Schwoerer, M.V., Von-Holle, B., Weishampel, J., Wolf, S. (2013) Sea level rise, land use, and climate change influence the distribution of loggerhead turtle nests at the largest USA rookery (Melbourne Beach, Florida). *Marine Ecology Progress Series*, 493:259-274.

- Reece, J., Noss, R.F., Oetting, J., Hoctor, T., Volk, M. (2013) A vulnerability assessment of 300 species in Florida: threats from sea level rise, land-use, and climate change. *PLoS One*, 8(11):e80658.
- Boenscotter, A.M., Reece, J.S., Noss, R.F., Brandt, L.A., Mazzotti, F.J., Romañach, S., Watling, J.I. (2013) Threatened and endangered subspecies with vulnerable ecological traits also have high susceptibility to sea level rise and habitat fragmentation. *PLoS ONE*, 8: e70647.
- Reece, J., Mehta, R. (2013) The mechanisms underlying the evolution of elongation and large body size in moray eels (Muraenidae). *Biological Journal of the Linnean Society*, 109: 861-875.
- Reece, J., Noss, R.F. (*in press*). A Flexible Tool for Prioritizing Species by Conservation Value and Vulnerability to Multiple Threats. *Natural Areas Journal*.
- Korosy, M.G., Reece, J., Noss, R. (2013) Winter habitat associations of four grassland sparrows in south Florida's dry prairie. *Wilson Journal of Ornithology*, 125: 502-512.
- Krakos, K.N., Reece, J., Raven, P. (*in press*) Molecular phylogenetics and reproductive biology of *Oenothera* section *Kneiffia*. *Systematic Botany*.
- Reece, J. (2011) The Incredible Larvae of Moray Eels. *Quest Magazine*, 12, 25-27. \*\*Featured on Cover
- Reece, J., Bowen, B.W., Larson, A. (2011). Phylogeography of four moray eel species: long larval duration ensures ocean-wide genetic homogeneity despite variation in adult niche breadth. *Marine Ecology Progress Series* 437, 269-277.
- Tucker, S.L., Reece, J., Ream, T.S., Pikaard, C.S. (2010) Evolutionary history of plant multisubunit RNA Polymerases IV and V: Subunit origins via genome-wide and segmental gene duplications, retrotransposition, and lineage-specific subfunctionalization. *Cold Spring Harbor Symposia on Quantitative Biology*, 75: 285-297.
- Reece, J. Smith, D.G., Holm, E. (2010) The moray eels of the *Anarchias cantonensis* group (Anguilliformes: Muraenidae), with description of two new species. *Copeia* 3, 421-430.
- Reece, J. Bowen, B.W., Larson, A.F. (2010) Molecular phylogenetics of moray eels (Muraenidae) demonstrates multiple origins of a shell-crushing jaw (*Gymnomuraena*, *Echidna*) and multiple colonizations of the Atlantic Ocean. *Molecular Phylogenetics and Evolution* 57, 829-835.
- Reece, J., Bowen, B.W., Joshi, K., Goz, V., Larson, A. (2010) Phylogeography of two moray eels indicates high dispersal throughout the Indo-Pacific. *Journal of Heredity* 101, 391-402. \*\*Featured on Cover
- Brock, K.A., Reece, J., and L.M. Ehrhart. (2009) Effects of Artificial Beach Nourishment on Marine Turtles: Differences between Loggerhead and Green Turtles. *Restoration Ecology*, 17, 297-307.

Reece, J., Ehrhart, L.M., and C.L. Parkinson (2006). Mixed Stock Analysis of Juvenile Loggerhead Turtles in the Indian River Lagoon and Implications for Marine Turtle Conservation Planning. *Conservation Genetics*, 7, 345-352.

Reece, J., Castoe, T.C., and C.L. Parkinson (2005). Historical Perspectives on Population Genetics and Conservation of Three Marine Turtle Species. *Conservation Genetics*, 6, 235-251.

### ***GRANT FUNDING AND AWARDS***

Awards/Scholarships: \$64,950

Research Grants: \$233,282

#### 2012

FFWCC Florida Grasshopper Sparrow Grant \$22,325

#### 2009

NSF DDIG \$9020

MEEC Best Oral Presentation Award \$100

WU Departmental Travel Award \$1500

DeepFin Fish Phylogeny Project \$4000

Explorer's Club Travel Award \$1500

Society of Systematic Biology Mini-PEET Award \$2200

Howard Hughes Medical Institute Undergraduate Training Award \$3750

#### 2008

Howard Hughes Medical Institute Undergraduate Training Award \$3750

Smithsonian Graduate Fellowship (declined) \$27,000

#### 2007

National Geographic Young Explorers Award \$4000

PADI Foundation Award \$2,700

Howard Hughes Medical Institute Undergraduate Training Award \$3750

#### 2003-2006

Washington University: Conservation Genetics Workshop \$3000

United States Fish and Wildlife Foundation Wildlife Refuge Centennial Fellowship \$15,000

Florida Fish and Wildlife Service Marine Turtle Grant Program \$13,193

Brevard County Office of Natural Resource Management \$45,254

Florida Fish and Wildlife Service Marine Turtle Grant Program \$22,659

Sea World Busch Gardens Conservation Fund \$5,000

University of Central Florida Travel Award \$200

University of Central Florida Graduate Part Time Tuition Fellowship \$600

Brevard County, FL Shore Protection Project \$26,469

Sigma Xi Outstanding Presentation by a Graduate Student \$50

UCF American Association for the Advancement of Science Award \$150

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| Florida Fish and Wildlife Service Marine Turtle Grant Program            | \$25,684 |
| University of Central Florida Graduate Travel Award                      | \$800    |
| Caribbean Conservation Corporation Mel Stark Fellowship                  | \$4,000  |
| Sea Turtle Symposium Travel Award  | \$650    |
| National Speleological Society   | \$871    |
| United States Exploration Committee                                      | \$250    |
| Theodore Roosevelt Memorial Fund   | \$1,000  |
| Florida Fish and Wildlife Commission Marine Turtle Grant Program         | \$15,050 |
| Brevard County Shore Protection Project Marine Turtle Nesting Monitoring | \$26,057 |
| UCF Graduate Research Enhancement Award                                  | \$1,000  |
| UCF Undergraduate to Graduate Fellowship                                 | \$10,000 |

### **PRESENTATIONS**

- Reece, J., Reidenbach, L.B., Noss, M., Noss, R.F., Creating high-school teaching materials that interweave sea-level rise research with Florida's Next Generation Sunshine State Standards. National Association of Biology Teachers, Atlanta, GA 2013.
- Reece, J., Noss, R. A new method for assessing vulnerability of species and communities to combined impacts of sea-level rise, climate change, and land-use change. Ecological Society of America, Portland, OR August 2012.
- Reece, J., Mehta, R., Alfaro, M., Wainwright, P., Collar, D. Multiple Ways to Crack a Shell: The Evolutionary Trajectories Leading to Imperfect Convergence in Moray Eels (Muraenidae). Evolution, Norman, OK June 2011.
- Reece, J. Mehta, R. Alfaro, M. Convergence in durophagous moray eels. Society of Integrative and Comparative Biology, Salt Lake City, UT January 2011
- Reece, J. Panmixia Across the Indo-Pacific in two species of Moray Eels (Muraenidae). ASIH, Portland, OR, July 2009
- Reece, J. Moray Eels: a phylogenetic and phylogeographic enigma? Evolution, Moscow, Idaho, June 2009
- Reece, J. Phylogeographic structure, and the lack thereof, in moray eels (Muraenidae). Midwestern Ecology and Evolution Conference, Lincoln, NE, March 2009. \*Best Talk Award
- Reece, J. Phylogeography and Phylogenetics of Moray Eels. Saint Louis University, Oct. 2008
- Reece, J. Phylogeography of moray eels in the Indo-Pacific. Society of Integrative and Comparative Biology, San Antonio, Texas, Jan 2-6, 2008.
- Reece J. The green turtle (*Chelonia mydas*): Phylogeography and life-history ecology in conservation planning. Joint Meeting of Ichthyologists and Herpetologists, Tampa, Florida, June 2005.

- Alansari AS, Mahmoud IY, Al-Kindy AYA, Reece J, Siyabi SS, Al-Dhafry KS, Al-Zadjali SA, Parkinson CL. Genetic diversity in nesting green turtles, *Chelonia mydas*, at Ras Al-Hadd Reserve- Sultanate of Oman. International Sea turtle Symposium, January 2005
- Reece J, Al-Kindi AYA, Alansari AS, Parkinson CL. Preliminary findings on loggerhead and green turtle population genetic structure in the Sultanate of Oman. International Sea Turtle Symposium, January 2005.
- Reece J, Ehrhart LM, Downs C, Fauth JE. Identifying environmental co-factors associated with fibropapillomatosis in the Florida green turtle (*Chelonia mydas*). Florida Fibropapilloma green turtle workshop, December 2004.
- Reece J, Ehrhart LM, Parkinson CL. The Significance of the Indian River Lagoon as a Juvenile Foraging Ground for the Western Atlantic Loggerhead Turtle. Florida Academy of Sciences, March 2004.
- Reece J, Ehrhart LM, Parkinson CL. The genetic composition of Florida's Indian River Lagoon: Its significance as a juvenile foraging ground for the western Atlantic loggerhead turtle. International Sea Turtle Symposium, Costa Rica, February 2004.
- Reece J, Ehrhart LM, Parkinson CL. The Global Significance of the Indian River Lagoon as a Juvenile Foraging Ground for the Loggerhead Turtle. Florida Marine Turtle Permit Holders Meeting, January 2004.

### **PROFESSIONAL AFFILIATIONS**

Professional Association of Diving Instructors Foundation (PADI)  
Society of Integrated and Comparative Biology (SICB)  
Evolution Society  
American Association of Ichthyologists and Herpetologists (ASIH)  
American Association of Underwater Scientists (AAUS)  
National Speleological Foundation (NSF)  
American Association for the Advancement of Science  
Explorers Club

### **SERVICE AND COMMUNITY OUTREACH**

Peer Reviewer for the following journals:  
Journal of Ichthyological Research  
Molecular Ecology Resources  
Molecular Ecology  
Molecular Phylogenetics and Evolution  
Journal of Conservation Genetics  
Coral Reefs  
Marine Ecology Progress Series

National Evolutionary Synthesis Center: Contributor to Phyloinformatics Vo-Camp 2009: developing the technological infrastructure to integrate phylogenetic databases with biodiversity information

Young Scientist Program: From 2006-2010 I developed learning modules in ecology and evolution and team-taught them in local St. Louis public high schools

Graduate Student Mentorship Program Washington University in St. Louis- I co-designed this program and mentored 5 junior graduate students

Washington University Committees: Graduate Student Steering Committee Chair, Seminar Series Coordinator, Ecologist Hiring Committee, Departmental Chair Hiring Committee, Organizer of ArcGIS Workshop 2008.

Scientific Outreach Lectures in St. Louis High Schools: Kennedy High School (2007), St. Joseph Academy (2008, 2009, 2010)

Disseminating Local Research to the Community: Kaneohe Pet Shop in Oahu, HI: public speaking engagements in 2008, 2009

R Workshop- Data formatting, principal components analyses and packages for comparative phylogenetic methods (UC Santa Cruz, Fall 2010)

### ***TEACHING EXPERIENCE***

#### **Laboratory Instructor University of Central Florida Fall 2002**

Biodiversity Course: designed tests and quizzes, developed curriculum for sophomore-level biology class.

#### **Laboratory Instructor University of Central Florida Fall 2004**

Herpetology: gave lectures, curated teaching collection, organized and led field trips collecting herpetofauna.

#### **Laboratory Instructor University of Central Florida Spring 2003**

Vertebrate Zoology and Evolution: curated teaching collection, designed practicals, gave lectures, organized local trapping and collection trips

#### **Lecturing Teaching Assistant Washington University Spring 2006, 2007, 2009**

Evolution Course: Designed and delivered lectures, wrote test questions, led weekly discussion group

#### **Lecturing Teaching Assistant Washington University Fall 2007**

Conservation Biology: grading, class lectures, and weekly discussion group

#### **Lecturing Teaching Assistant Washington University Spring 2008, 2009, 2010**

Behavioral Ecology: designed and delivered class lectures, wrote test questions, critiqued writing exercises

#### **Lecturing Teaching Assistant Coordinator Washington University (Fall 2008)**

Genetics: led group of 8 teaching assistants, gave tutorials, wrote test questions and graded examinations

#### **Short Course/Seminars Washington University in St. Louis (Summer 2009)**

Quantitative PCR and sequencing  
 Editing and organizing DNA sequence data  
 Phylogenetics  
 Population Genetic Analyses

**Instructor: NSF/Washington University Life Sciences for a Global Community Program** (Fall 2009)

Teaching biology high school instructors to teach science, including development of online tutorials in phylogenetics

**Instructor: Special Topics- Sea Level Rise in Florida: UCF** (Summer 2012)**Instructor: Conservation Biology: UCF** (Fall 2012)**Professor: Freshman Biology** (Spring 2013)***MENTORING***

University of Central Florida: Höken Kalkvik (PhD student), Jenna Evans (undergraduate), Max Rotatori (High School Lab Volunteer), Jack Degner (MS student), Leah Reidenbach (undergraduate), Angela Tursi (undergraduate).

Washington University in St. Louis: Paul Hime (St. Louis Zoo), Maria Melnechuk (PhD student), Kristin Powell (PhD student), Nic Kooyers (PhD student), Emma Moran (PhD student), Andrew Bergen (PhD student), Kavita Joshi (undergrad), Vadim Goz (undergrad), Alex Strauss (undergrad), Vanessa Schroeder (undergrad), and Benjamin Jellen (St. Louis University PhD student).

University of California Santa Cruz: Undergrads: Jeff Sharick, Anja Sjostrom.

***POPULAR PRESS***

<http://www.orlandosentinel.com/videogallery/71209920/News/Rare-Florida-sparrow-population-nearly-extinct.html>

[http://blogs.discovery.com/animal\\_news/2010/04/moray-eel-mystery.html](http://blogs.discovery.com/animal_news/2010/04/moray-eel-mystery.html)

<http://www.msnbc.msn.com/id/36565811/>

<http://www.susanscott.net/OceanWatch2010/apr-05-10.html>

<http://www.practicalfishkeeping.co.uk/content.php?sid=2736>

<http://news.wustl.edu/news/Pages/20523.aspx>

<http://www.livescience.com/animals/eels-species-genetics-100415.html>

<http://www.sciencedaily.com/releases/2010/04/100407121217.htm>

<http://www.mnn.com/lifestyle/pets-animals/stories/moray-eel-diversification-baffles-researchers>

***PROFESSIONAL REFERENCES***

Dr. Allan Larson (PhD Advisor):

Washington University in Saint Louis, Department of Biology

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St. Louis, MO 63130

[Larson@wustl.edu](mailto:Larson@wustl.edu); 314-935-4656

Dr. Brian Bowen (mentor, collaborator)

University of Hawaii, Hawaii Institute of Marine Biology

PO Box 1346

Kaneohe, HI 96744  
[bbowen@hawaii.edu](mailto:bbowen@hawaii.edu); 808-236-7426

Dr. Reed Noss (postdoctoral advisor)  
University of Central Florida  
4000 Central Florida Blvd, Bldg 20  
Orlando, FL 32816  
[Reed.noss@ucf.edu](mailto:Reed.noss@ucf.edu); 407-823-0975

Dr. Alan Templeton (PhD Advisor)  
Washington University in Saint Louis, Department of Biology  
One Brookings Drive  
St. Louis, MO 63130  
[templeton@biology2.wustl.edu](mailto:templeton@biology2.wustl.edu); 314-935-6868

Dr. David Smith (collaborator)  
Smithsonian Institution, Museum Support Center, MRC 534  
4210 Silver Hill Road  
Suitland, MD 20746  
[smithd@si.edu](mailto:smithd@si.edu); 301-238-1742

Dr. Todd Castoe (collaborator, MS degree student mentor)  
Assistant Professor, University of Texas at Arlington  
[Todd.castoe@uta.edu](mailto:Todd.castoe@uta.edu); 817-272-2426