N e i l C. A s c h l i m a n, P h. D.

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EDUCATION

Ph.D., Biological Sciences. Department of Ecology and Evolutionary Biology, Florida State University, Tallahassee, Florida; 2005 – 2011.
Dissertation topic: The Batoid Tree of Life: Recovering the Patterns and Timing of the Evolution of Skates, Rays and Allies (Chondrichthyes: Batoidea). Defense 2 Jun. 2011.
Co-advisors: Dr. Gavin J. P. Naylor, Dr. Scott J. Steppan.

Bachelor of Science, Zoology. *Summa cum laude*. Foundation Honors. Texas A&M University, College Station, Texas; 2001 – 2005. GPR 3.976.

TEACHING EXPERIENCE

St. Ambrose University: Principles of Biology (BIOL-101, 4 credits, 2 sections); Human Anatomy and Physiology (BIOL-202, 4 credits, 2 sections); Advanced Human Anatomy and Physiology (BIOL-204, 4 credits, 1 section).

Instructor of record at FSU: General Biology for Non-Majors (BSC1005, 2 sections) Unit II – Cell Biology & Genetics.

Teaching assistant at FSU: Anatomy & Physiology I (BSC2085L, 4 sections); Anatomy & Physiology II (BSC2086L, 2 sections); Comparative Vertebrate Anatomy Laboratory (ZOOL3713C, 4 sections); Animal Diversity Laboratory (BSC2011L, 8 sections); Biological Science I Laboratory For Majors (BSC2010L, 2 sections); Evolution (PCB4674, 1 section). Eight guest lectures (two original material).

Training and supervision of 11 undergraduate interns/techs in the Naylor lab, of whom eight were members of underrepresented groups (incl. seven females), and one international scholar from Indonesia.

TEACHING AWARDS

Outstanding Teaching Assistant Award (OTAA); 2007. Florida State University. http://learningforlife.fsu.edu/ctl/collaborate/PIE/OTAAnominations.cfm

Renomination*, Outstanding Teaching Assistant Award; 2010. Florida State University. **Cannot win twice.*

PRESENTATION AWARDS

Frederick H. Stoye Award, General Ichthyology [best student paper], American Society of Ichthyologists and Herpetologists. Joint Meeting of Ichthyologists and Herpetologists, Providence, Rhode Island; 10 Jul. 2010.

Superior Poster Presentation Award [top prize], Sigma Xi Scientific Research Society annual meeting, Montreal, Quebec, Canada; 12 – 13 Nov. 2004.

RESEARCH EXPERIENCE

Ph.D. Candidate, Florida State University, Tallahassee, Florida; 2005 – 2011.

Research Assistant to Dr. John McEachran, Texas A&M University, College Station, Texas; 2002 – 2005.

Research Assistant to Dr. Bruce Riley, Texas A&M University, College Station, Texas; 2004 – 2005.
Research Training Program (RTP) Fellow for Dr. Bruce Collette, Smithsonian Institution, National Museum of Natural History, Washington, D.C.; May – Aug. 2004.
Research Experiences for Undergraduates (REU) Intern for Dr. Jim Gelsleichter, Center for Shark Research, Mote Marine Laboratory, Sarasota, Florida; May – Aug 2003.
Research Assistant, various cruises.

RESEARCH PROPOSAL AWARDS

National Science Foundation Graduate Research Fellowship, *Honorable Mention*; 2006, 2007.

GRANTS AND FELLOWSHIPS

Teaching assistantship, Florida State University Department of Biology; 2005 – 2011.
Travel Grant, American Society of Ichthyologists and Herpetologists. Funding to attend the Joint Meeting of Ichthyologists and Herpetologists in Providence, Rhode Island; Jul. 2010.
Travel grant, American Elasmobranch Society. Funding to attend the Joint Meeting of Ichthyologists and Herpetologists in Portland, Oregon; Jul. 2009.
Fellowship, National Science Foundation East Asia and Pacific Summer Institutes. Host: Prof. Mutsumi Nishida, Ocean Research Institute (ORI), University of Tokyo, Tokyo, Japan. Funding for 2.5 months of residence at the ORI to study batoid mitochondrial genomics, Jun. – Aug. 2007.
Travel grant, Texas A&M College of Science, Office of Professional School Advising, Honors Department, Office of the Vice President for Research. Funding to attend the annual meeting of the Sigma Xi Scientific Research Society in Montreal, Quebec, Canada; Oct. 2004.
Fellowship, Alice Eve Kennington Endowment; Research Training Program fellowship at the National Museum of Natural History, Washington, D.C.; May – Aug. 2004.
Fellowship, National Science Foundation # OCE0139392; Research Experience for Undergraduates fellowship at Mote Marine Laboratory, Sarasota, Florida; May – Aug. 2003.

JOURNAL REFEREEING

Journal of Fish Biology.
Marine Biodiversity Records.
Marine Freshwater Research.

ACTIVE SOCIETY MEMBERSHIPS

Member of the American Society of Ichthyologists and Herpetologists since 2002.
Associate member of the Japan Society for the Promotion of Science since 2007.
Member of the Society of Systematic Biologists since 2011.
Member of the Society for the Study of Evolution since 2012.

JOURNAL ARTICLES

Neil C. Aschliman, Mutsumi Nishida, Masaki Miya, Jun G. Inoue, Kerri M. Rosana and Gavin J.P. Naylor. 2012. Body Plan Convergence in the Evolution of Skates and Rays (Chondrichthyes: Batoidea). *Molecular Phylogenetics and Evolution* 63:28-42.
Hugo Bornatowski, *Neil Aschliman*, Vinícius Abilhoa and Marco Fábio Maia Corrêa. Reproductive biology of the Brazilian sharpnose shark *Rhizoprionodon lalandii* in southern Brazil. A comparison along the Brazilian coast. *In prep.*
Neil C. Aschliman, David A. Ebert, and Leonard J. V. Compagno. 2010. Redescription of *Cruriraja 'parcomaculata' sensu* Smith, 1964 (Rajoidei: Anacanthobatidae), a new legskate from Southern Africa. *Copeia* 2010(3):364-372.
Neil C. Aschliman, Ian R. Tibbetts and Bruce B. Collette. 2005. Relationships of sauries and needlefishes (Teleostei: Scomberesocoidea) to the internally fertilizing halfbeaks (Zenarchopteridae) based on the pharyngeal jaw apparatus. *Proceedings of the Biological Society of Washington*. 118(2):416-427.

BOOKS AND BOOK CHAPTERS

Neil C. Aschliman, Kerin M. Claeson and John D. McEachran. Phylogeny of Batoidea. 2012. Reviewed chapter. Pp. 57 – 95 in Biology of Sharks and Their Relatives, Edition 2. J.C. Carrier, J.A. Musick and M.R. Heithaus (eds.). CRC Press.

Neil C. Aschliman and David A. Ebert. [four chapters on elasmobranchs]. *In prep* for Fishes of the Western Indian Ocean. P.C. Heemstra and J.E. Randall (eds.).

David A. Ebert and *Neil C. Aschliman*. [three chapters on elasmobranchs]. *In prep* for Fishes of the Western Indian Ocean. P.C. Heemstra and J.E. Randall (eds.).

Neil C. Aschliman. 2011. Doctoral dissertation. The Batoid Tree of Life: Recovering the Patterns and Timing of the Evolution of Skates, Rays and Allies (Chondrichthyes: Batoidea). Florida State University, Tallahassee, Florida. 184 pp.

G. J. P. Naylor and *N. Aschliman.* How many species of living sharks, skates and rays are there, and how did they arise over the course of evolution? *In* Proceedings of the International Symposium on Reproduction in Marine Organisms. Uchida and Sato (eds.). Okinawa Press.

John D. McEachran and *Neil Aschliman*. 2004. Phylogeny of Batoidea. Pp. 79 – 113 in Biology of Sharks and Their Relatives. J.C. Carrier, J.A. Musick and M.R. Heithaus (eds.). CRC Press.

INVITED LECTURES

Molecular systematics of stingrays and allies (Batoidea: Myliobatiformes). *Invited speaker*. Ocean Research Institute, University of Tokyo. Tokyo, Japan; 2 Jul. 2007.

Better living through phylogenetics! -or- Diversity and constraint in the evolution of skates and rays. *Invited speaker*, Summer Seminar Series. Mote Marine Laboratory, Sarasota, Florida; 26 May 2006.

PAPER PRESENTATIONS

Eleven total. *Selected presentations:*

*A new framework for interpreting the evolution of skates and rays (Chondrichthyes: Batoidea). Joint Meeting of Ichthyologists and Herpetologists. Providence, Rhode Island; 10 Jul. 2010. **Winner of the Frederick H. Stoye Award, General Ichthyology [best student paper]*.

The Batoid Tree of Life: Recovering the Patterns and Timing of the Evolution of Skates, Rays and Allies (Chondrichthyes: Batoidea). Dissertation Defense, Florida State University, Tallahassee, Florida; 2 Jun. 2011.

Diversity and constraint in the evolution of skates and rays. Ecology and Evolution Seminar, Florida State University, Tallahassee, Florida; 20 Mar. 2009.

Diversity and constraint in the evolution of skates and rays (Chondrichthyes: Batoidea). Ocean Research Institute, University of Tokyo. Tokyo, Japan; 20 Aug. 2007.

POSTER PRESENTATIONS

Eight total. *Selected presentations:*

The Batoid Tree of Life: Synthesizing Morphological And Molecular Phylogenies of Skates, Rays And Allies (Chondrichthyes: Batoidea). Joint Meeting of Ichthyologists and Herpetologists. Minneapolis, Minnesota; 9 Jul. 2011.

Molecular phylogeny of stingrays and allies (Batoidea: Myliobatiformes) using nuclear and mitochondrial DNA sequence data. Southeastern Ecology and Evolution Conference (SEEC), Florida State University, Tallahassee, Florida; 29 Mar. 2008.

Reconstructing the interrelationships of skates and rays (Chondrichthyes: Batoidea) using mitochondrial genomes. NSF/JSPS EAPSI Program Poster Session. Sokendai Graduate University for Advanced Studies, Hayama, Japan; 15 Jun. 2007.

*Relationships of sauries and needlefishes (Teleostei: Scomberesocoidea) to the internally fertilizing halfbeaks (Zenarchopteridae) based on the pharyngeal jaw apparatus. Sigma Xi Scientific Research Society Annual Meeting. Montreal, Quebec, Canada; 12 – 13 Nov. 2004. **Winner of the Superior Poster Presentation Award [top prize]*.

ELECTED POSITIONS

Member, University Life Committee. St. Ambrose University, Davenport, Iowa; Elected May 2012.
President, Ecology and Evolution Research Discussion Group (EERDG). Florida State University, Tallahassee, Florida; Apr. 2009 – Aug. 2010. Elected.
*Secretary, Ecology and Evolution Research Discussion Group (EERDG). Florida State University, Tallahassee, Florida; May 2008 – Apr. 2009. Elected. ***Developed society website at http://bio.fsu.edu/~eerdg*
Graduate Student Representative for Ecology & Evolutionary Biology, Integrating Genotype and Phenotype faculty cluster hire initiative. Florida State University, Tallahassee, Florida; Nov. 2007 – May 2008. Nominated and confirmed.

UNIVERSITY SERVICE

Co-advisor, Biology Club. St. Ambrose University, Davenport, Iowa; 2011 – current.
Advisor, Fighting Bee Jiu-jitsu. St. Ambrose University, Davenport, Iowa; 2011 – current.
Organizer, Early Career Faculty Events. St. Ambrose University, Davenport, Iowa; 2012 – current.
Member, Assessment and Evaluation Advisory Board. St. Ambrose University, Davenport, Iowa; 2011 – current.
Member, University Life Committee. St. Ambrose University, Davenport, Iowa; 2012 – current.
Member, Cadaver Laboratory Selection Committee. St. Ambrose University, Davenport, Iowa; 2012.
Member, Nursing Search Committee. St. Ambrose University, Davenport, Iowa; 2012.
Study Abroad Regional Advisor (SARE). St. Ambrose University, Davenport, Iowa; 2011 – 2012.

PUBLISHED ILLUSTRATIONS

Perciformes key. John D. McEachran. Pp. 85 – 96 in Fishes of the Gulf of Mexico volume 2. John D. McEachran and Janice D. Fechhelm. University of Texas Press. 2005. Produced line drawing of Moronidae on p. 92.
Hormonal regulation of elasmobranch physiology. James Gelsleichter. Pp. 287 – 323 in Biology of Sharks and Their Relatives. Editors J.C. Carrier, J.A. Musick, M.R. Heithaus. CRC Press. 2004. Produced raw line drawings on pp. 289, 293 – 294, 296, 299, 301.
**Illustrations and cartoons may be commissioned for published works or presentations. Sample: "Zoloft Shark" for Jim Gelsleichter, UNF. http://www.iceandshadows.com/art/fivefathoms/ZoloftShark.jpg*

OUTREACH

Author of the biology outreach blog *This reView of Life*, *http://thisreviewoflife.blogspot.com*; Apr. 2010 – current.
Invited panelist, "Directing Your Journey," Black Graduate Student Association (BGSA) Linkages Symposium. Florida State University, Tallahassee, Florida, 9 Apr. 2011.
Judge, Zoology, Capital Regional Science and Engineering Fair. Florida State University, Tallahassee, Florida; 2008 – 2010.

TEACHING / OUTREACH TRAINING

Teaching Science to Maximize Learning and Retention (BSC5936); Florida State University, Spring 2011.
COMPASS Media Training Workshop: "Meet the Press: Opportunities and Challenges for Scientists in a Changing World"; Apr. 2010.
FSU Department of Biological Science Teaching Workshop; Aug. 2005 [one-week program].

HONORS

Finalist, University Fellowship, Florida State University; 2007.
Selected societies: Phi Beta Kappa Honor Society, 2005; Sigma Xi Associate Membership; 2005.
Dean's Honor Roll; 2001, 2002, 2003, 2004, 2005.