

Nadine Stecher

10 Highpoint Circle, Apt # 409
Quincy, MA 02169

Cell : (513) 473-1450 • Email: nadine.stecher@gmail.com

Professional Summary

Eight years of experience in histology and immunohistochemistry, light and electron microscopy. Two years of experience in behavioral experimentation. Six years of teaching Human Anatomy and Physiology and other introductory biology courses. Six years of experience in animal husbandry. Doctorate in the development, ultrastructure and function of invertebrate visual systems.

Education

PhD	Biology	University of Cincinnati, USA	GPA = 3.9/4.0	2011
BS + MS	Biology	University of Rostock, Germany	GPA = 3.6/4.0	2005

Research Experience

2005 – Present	University of Cincinnati : Department of Biological Sciences <i>Cincinnati, OH (USA)</i> <ul style="list-style-type: none">Histological study of the ultrastructure and development of the larval eyes of the Sunburst Diving BeetleBehavioral study of the influence of polarized light on the hunting success of the larvae of the Sunburst Diving Beetle. (Skills: microtome sectioning (epoxy, wax, cryo), histology, immunohistochemistry, light microscopy, fluorescence microscopy transmission electron microscopy, statistical analysis software, animal husbandry)
2004 – 2005	University of Rostock : Department of Biology <i>Rostock (Germany)</i> <ul style="list-style-type: none">Histological Study on a species of the twisted wing insects. (Skills: histology, light microscopy, scanning electron microscopy)
Summer 2003	Białowieża National Park <i>(Poland)</i> <ul style="list-style-type: none">Identifying and cataloguing specimens
Summer 2002	University of Uppsala: Field station in Fiskebäck <i>(Sweden)</i> <ul style="list-style-type: none">determining the infection rate of the moon jellyfish by an amphipod

Teaching Experience

Summer 2011	University of Cincinnati: Department of Biological Sciences <ul style="list-style-type: none">Anatomy and Physiology Lecture II Biol 202
Winter Quarter 2006/2007 - Fall Quarter 2010/2011	University of Cincinnati : Department of Biological Sciences <ul style="list-style-type: none">Anatomy and Physiology Lab I, II, III Biol 201-203
Fall Quarter 2006/2007	University of Cincinnati: Department of Biological Sciences <ul style="list-style-type: none">Biology Lab Biol 111
Fall Quarter 2009/2010	University of Cincinnati: Department of Biological Sciences <ul style="list-style-type: none">Animal Physiology Biol 571 (Guest Lecture)

Publications

1. **Stecher, N.**, R. Morgan & E.K. Buschbeck: Retinal ultrastructure may mediate polarization sensitivity in larvae of the Sunburst diving beetle, *Thermonectus marmoratus* (Coleoptera: Dytiscidae). *Zoomorphology* 129 (3): pp. 141-152, 2010
2. **Stecher, N.** & E.K. Buschbeck: Development of the larval eyes of the Sunburst Diving Beetle, *Thermonectus marmoratus* (Insecta: Dytiscidae), in preparation

Hardware/Software Skills

Lab Equipment	:	Light microscope, Fluorescence Microscope, Microtome, Ultramicrotome, Cryotome, Transmission and Scanning Electron Microscope
Generic Software	:	Microsoft Office 2010, Blogs
Imaging Software	:	Adobe Photoshop CS3, Macromedia Freehand 10, NIH ImageJ, QImaging QCapture Suite 7, Olympus MagnaFire
Statistics Software	:	SAS JMP 8, Systat
Video Editing Software	:	Adobe Premier Pro CS4
Animation Software	:	Autodesk Maya, Visage Imaging Amira 5.3