JEFFREY STEWART HEILVEIL

Biology Department, State University of New York College at Oneonta, 108 Ravine Parkway, Oneonta, NY 13820; (607) 436-3162; jeffrey.heilveil@oneonta.edu

EDUCATION

Ph.D. (2004) Entomology, University of Illinois, Urbana-Champaign, IL
M.Sc. (1999) Entomology, University of Illinois, Urbana-Champaign, IL
B.Sc. (1997) Resource Ecology Management, University of Michigan, Ann Arbor, MI

AREAS OF SPECIALIZATION

Genetics, Population Genetics, Phylogeography, Entomology, Ecology, Population Ecology, Aquatic Ecology

PROFESSIONAL EXPERIENCE

Associate Professor (9/13 – present), Biology Department, State University of New York College at Oneonta, Oneonta, NY
Assistant Professor (9/07 – 8/13), Biology Department, State University of New York College at Oneonta, Oneonta, NY
Assistant Professor (8/06 – 5/07), Department of Natural Sciences, Fayetteville State University, Fayetteville, NC
Post-Doctoral Researcher (1/05 – 8/06), Dr. Craig Stockwell, mentor, Department of Biological Sciences, North Dakota State University, Fargo, ND
Research Assistant (09/02 – 12/04), Dr. Stewart Berlocher, advisor, Department of Entomology, University of Illinois, Urbana-Champaign, IL
Academic Advisor (2000 – 2001, 2003 – 2004), School of Life Sciences, University of Illinois, Urbana-Champaign, IL
Laboratory and Field Technician (10/95 – 08/97), Dr. Michael Wiley, advisor, School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI

TEACHING EXPERIENCE - LECTURER

General Biology I (Biol 100), Biology Department, SUNY College at Oneonta
Biological and Medical Terminology (Biol111), Biology Department, SUNY College at Oneonta
Genetics (Biol 212), Biology Department, SUNY College at Oneonta
Entomology (Biol 244), Biology Department, SUNY College at Oneonta
Methods in Population Genetics (Biol 269), Biology Department, SUNY College at Oneonta
NY Stream Biota: ID and Ecology (Biol 285), Biology Department, SUNY College at Oneonta
Biological Literacy (Biol 317), Biology Department, SUNY College at Oneonta
Field Entomology (Biol 344), Biology Department, SUNY College at Oneonta
Aquatic Invertebrate Ecology (Biol 384), Biology Department, SUNY College at Oneonta
Advanced Biological Literacy (graduate-level) (Biol 617), Biology Department, SUNY College at Oneonta
Advanced Entomology (graduate-level) (Biol 644), Biology Department, SUNY College at Oneonta
Advanced Methods in Population Genetics (graduate-level) (Biol 669), Biology Department SUNY College at Oneonta
Topics in Aquatic Biology (graduate-level) (Biol 687), Biology Department, SUNY College at Oneonta
Special Topics: Immature Insects (graduate-level) (Biol 694), Biology Dept., State University of New York College at Oneonta

Introductory Biology (Bio 150), Department of Natural Sciences, Fayetteville State University
Ecology and Evolution (Bio 350), Department of Natural Sciences, Fayetteville State University
Special Problems: Stream Ecology (Bio 430-02), Department of Natural Sciences, Fayetteville State University
Evolution (graduate-level) (Bio 660), Department of Natural Sciences, Fayetteville State University
Comprehensive Physical Science (NSci 110), Department of Natural Sciences, Fayetteville State University
General Entomology (graduate-level) (Zool 570), Department of Natural Sciences, Fayetteville State University
Writing for Biological Sciences (graduate seminar) (Bio 793), Department of Biological Sciences, North Dakota State University

TEACHING EXPERIENCE –WORKSHOPS

08/14: "Bringing Population Genetics into Secondary Education", Workshop, New York State Master Teacher Program, Oneonta, NY
01/08: "DNA Forensics: Using genetic data to solve crimes", Workshop, Otsego County Police Academy, Oneonta, NY
09/04, 10/04: "From organism to microsatellite markers in less than a week", Workshop, University of Illinois

TEACHING EXPERIENCE – GRADUATE ASSISTANT

Spring 2002, 2003: *Population Biology* (Honors) (Biol 252), Univ. of Illinois
Fall 2002: *Introduction to Integrative Biology* (IB 150), Univ. of Illinois
Fall 1998, 1999, 2000, 2001: *Animal Biology* (Biol 104), Univ. of Illinois
Spring 1998, 1999, 2001: *Evolution and Genetics* (Biol 120), Univ. of Illinois
Spring 2000: *Insect Pathology* (Entom 320), Univ. of Illinois
12/99: *Insect Pathology Short Course for Central America and Mexico,* Pan American School of Agriculture, Honduras

REFEREED PUBLICATIONS

Heilveil JS, LaPilusa TL, Turner L. (2013) Characterization of microsatellite markers from the commodity species *Cardisoma guanhumi* Latreille and the Christmas Island blue crab (*Discoplax celeste*). *Conservation Genetics Resources*, doi: 10.1007/s12686-013-0014-6
Powell THQ, Hood GR, Murphy MO, **Heilveil JS**, Berlocher SH, Nosil P, Feder JL (2013) Genetic divergence along the speciation continuum: the transition from host race to species in *Rhagoletis* (Diptera: Tephritidae). *Evolution*. doi: 10.1111/evo.12209
Stevenson RM*, **Heilveil JS** (2013) Characterization of eight polymorphic microsatellite markers for the saw-combed fishfly, *Nigronia serricornis* (Say) (Megaloptera: Corydalidae). *Conservation Genetics Resources,* doi: 10.1007/s12686-013-9954-0
Stockwell CA, Purcell K, **Heilveil JS** (2013) Estimating divergence time for two Evolutionarily Significant Units of a protected fish species. *Conservation Genetics*, **14**, 215-222. doi: 10.1007/s10592-013-0447-1
Collyer ML, **Heilveil JS**, Stockwell CA (2011) Contemporary Evolutionary Divergence for a Protected Species following Assisted Colonization. *PLoS ONE*, **6**, e22310. doi:10.1371/journal.pone.0022310

Heilveil JS and Berlocher SH (2006) Phylogeography of postglacial range expansion in *Nigronia serricornis* Say (Megaloptera: Corydalidae). *Molecular Ecology*, **15**, 1627–1641.

Heilveil JS, Kohler SL, and Solter LF (2001) Studies on the Life Cycle and Transmission of *Cougourdella* sp., a Microsporidian Parasite of *Glossosoma nigrior* (Trichoptera: Glossosomatidae). *Great Lakes Entomologist*, **34**, 9-15.

** = Graduate Student*

REVIEWED PROCEEDINGS

LaPilusa TL* and **Heilveil JS**. (2013) Genetic diversity of the blue land crab, *Cardisoma guanhumi* Latreille (Crustacea: Decapoda), on Andros Island: implications for sustainable management. *IN:* Tepper C and Shakley R (eds.) *Proceedings of the 14th Symposium on the Natural History of The Bahamas*. Gerace Research Center, LTD. San Salvador, Bahamas.

** = Graduate Student*

INVITED TALKS

2013

Heilveil JS. Urban Signatures in Gene Flow Patterns of Nigronia serricornis (Say) (Megaloptera: Corydalidae). Annual Meeting of the Entomological Society of America. Symposium on Aquatic Entomology for the Protection of Water Resources. Austin, TX.

2012

Heilveil JS. Trying to understand evolution? Ask the clergy (Three Cheers for the Good Rev. Bayes). Seminar Series in Applied Mathematics, Dept. of Mathematics, Computer Science, and Statistics, SUNY College at Oneonta.

Heilveil JS and Salvino JR*. Indirect effects of urbanization on metapopulation gene flow in *Nigronia serricornis* (Say). 2012 Annual meeting of the Society for Freshwater Science: Special session: Genetic tools in the study of biodiversity, ecology, and evolution of freshwater organisms. Louisville, KY.

Stockwell CA, Collyer M, **Heilveil JS.** Ecological replication and evolutionary trajectories: managing for evolutionary past, present & future. Forty-fourth annual meeting of the Desert Fishes Council. Death Valley, CA.

2011

Heilveil JS. The utility of phylogeography in conservation biology. Adaptive Peaks Seminar, SUNY College of Environmental Science and Forestry.

** = Graduate Student*

EXTERNAL TALKS

2014

LaPilusa, TL, **Heilveil, JS**. Microsatellites for Conservation: Case study of the land crab in The Bahamas. Cape Eleuthera Institute, Eleuthera Island, The Bahamas. 8 March 2014.

LaPilusa, TL, Earls*, KN, **Heilveil, JS**. Tools of the trade: Development of microsatellite genetic markers to inform management strategies of the land crab (Cardisoma guanhumi Latreille) fishery in The Bahamas. 2014 Bahamas Natural History Conference. 3-7 March, 2014. Nassau, New Providence, The Bahamas.

2013

Heilveil JS and Salvino JR*. Gene flow reductions between urban populations of *Nigronia*

serricornis (Say). 2013 Annual meeting of the Society for Freshwater Science. Jacksonville, FL.

LaPilusa TL* and **Heilveil JS**. Artisinal fishers and economic growth in The Bahamas: Can genetics and population assessment help sustain the harvest of the blue land crab? Bahamas National Natural History Conference. Nassau, The Bahamas.

2012

Stockwell CA, **Heilveil JS**, and Purcell K. Divergence time for two Evolutionarily Significant Units of the White Sands pupfish (*Cyprinodon tularosa*). Society for Conservation Biology; North America Congress for Conservation Biology Bridging the Gap: Connecting people, nature and climate. Oakland, CA.

Salvino JR* and **Heilveil JS**. Post-flooding impacts on gene flow in an urban population of *Nigronia serricornis* (Say) (Megaloptera: Corydalidae). 2012 Annual meeting of the Society for Freshwater Science. Lousiville, KY.

2011

LaPilusa TL* and **Heilveil JS**. Genetic diversity of the blue land crab, *Cardisoma guanhumi* Latreille (Crustacea: Decapoda), on Andros Island: implications for sustainable management. 14th Natural History Conference of the Bahamas. Gerace Research Center, San Salvador, Bahamas.

LaPilusa TL* and **Heilveil JS**. Genetics as a Mechanism for Conservation: Case Study of the blue land crab, *Cardisoma guanhumi* Latreille (Crustacea: Decapoda), on Andros Island. Forfar Field Station, Andros Island, Bahamas.

Heilveil JS, Salvino JR+, Stevenson RM*. Comparison of mitochondrial DNA and microsatellite markers for determining fine-scale genetic structure in the megalopteran *Nigronia serricornis* (Say). Annual meeting of the North American Benthological Society. Providence, RI.

2010

Stevenson RM*, **Heilveil JS**. Isolation and identification of microsatellite markers in *Nigronia serricornis* (Say) (Megaloptera: Corydalidae) and their utility in population genetics. Sixth Annual Finger Lakes Region Research Conference, Geneva, NY.

Heilveil JS. Secondary Contact in New York Populations of *Nigronia serricornis* (Say): A Meeting of the Clades. Joint meetings of the American Society for Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM.

LaPilusa TL*, **Heilveil JS.** Population Structure of *Cardisoma Guanhumi* Latreille (Crustacea: Decapoda) Sustainable Management Implications of a Commodity Species On Andros Island, Bahamas. Joint meetings of the American Society for Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM.

2009

Heilveil JS. Phylogeography as a tool for conservation. Invited talk, Beta Beta Beta chapter of Hartwick College.

LaPilusa, TL*, **Heilveil, JS**. Sustaining Andros: Protecting the long-term harvesting of *Cardisoma guanhumi* Latreille. Presentation, Forfar Field Station, Andros Island, Bahamas.

2008

Chen Y, **Heilveil JS**, Stockwell CA. Genetic diversity of MHC class IIB: Conservation implications for the White Sands pupfish. Evolution - 2008, Minneapolis, Minnesota.

2007

Stockwell CA, **Heilveil JS**, Chen Y. Genetic tools for evaluating population history and fragmentation in the White Sands pupfish. Devil's Hole pupfish genetic panel.

Chen Y, **Heilveil JS**, Stockwell CA. Adaptive Divergence of MHC Class IIβ in the White Sands Pupfish. 87th annual meeting of the American Society of Ichthyologists and Herpetologists.

2006

Heilveil JS, Stockwell CA. The effects of historic translocations and habitat fragmentation on the genetic structure of a protected fish species, the White Sands pupfish. 20th annual meeting of the Society for Conservation Biology.

Tackett AG, **Heilveil JS**, Stockwell CA. Genetic distribution and diversity of *Etheostoma nigrum* (Rafinesque) in the upper Midwest. 54th annual meeting of the North American Benthological Society.

2005

Heilveil JS. The relevance and applicability of phylogeographic analyses to conservation and restoration efforts. 53rd annual meeting of the North American Benthological Society

2004

Heilveil JS. Post glacial range expansion in *Nigronia serricornis* (Say) (Megaloptera: Corydalidae). 52nd annual meeting of the North American Benthological Society

2003

Heilveil JS. Genetic population structuring in *Nigronia serricornis* (Say) (Megaloptera: Corydalidae): anthropogenic or natural influence? 51st annual meeting of the North American Benthological Society

* = *Graduate Student Mentee, + = Undergraduate Student Mentee*

INTERNAL TALKS

2004

Heilveil JS. "As the ices go": Dispersal and postglacial range expansion in *Nigronia serricornis* (Say) (Megaloptera: Corydalidae). Exit Seminar. Department of Entomology, Univ. of Illinois

Heilveil JS. Post-glacial range expansion in *Nigronia serricornis* (Megaloptera: Corydalidae). 6th Annual Graduate Student Symposium, sponsored by the Graduate Students in Ecology and Evolutionary Biology, Univ. of Illinois

Heilveil JS. To the Great White North: Postglacial Range Expansion in *Nigronia serricornis* (Megaloptera: Corydalidae). Ecolunch Talk for the Program in Ecology and Evolutionary Biology, Univ. of Illinois

POSTERS

2013

Heilveil, JS, LaPilusa TL. Faculty Research Grants: Facilitating Research Tool Development, Fostering International Collaboration, and Enabling Publication Generation, Graduate Program Enhancement, and Undergraduate Course Enhancement. Life of the Mind 2013.

Picucci CL and **Heilveil JS**. Development and Intrafamilial Cross-Testing of Microsatellite Primers for *Acroneuria carolinensis* (Banks) (Plecoptera: Perlidae).2013 Annual meeting of the Society for Freshwater Science. Jacksonville, FL.

2012

Stockwell CA, **Heilveil JS**, and Purcell K. Estimating Divergence Time for two Evolutionarily Significant Units of the White Sands pupfish (*Cyprinodon tularosa*). White Sands Science Symposium. Las Cruces, NM.

Heilveil JS, Picucci CL*, Stevenson RM*. Development of Microsatellite Markers For Fishflies, Alderflies, and Dobsonflies: Paving The Way For Fine-Scale Population Genetics. SUNY Oneonta, Life of the Mind III.

2011

Heilveil JS. Indirect Effects of Urbanization on Riverine Populations in New York. SUNY Oneonta, Life of the Mind II.

LaPilusa TL* and **Heilveil JS**. Genetic Structure of *Cardisoma guanhumi* Latreille (Crustacea: Decapoda), on Andros Island, Bahamas. 2011 Research That Matters: An Exposition of Graduate Research in SUNY and CUNY. Legislative Office Building, Albany, NY.

2010

Heilveil JS. Secondary contact in New York populations of *Nigronia serricornis* (Say): a meeting of the clades. SUNY Oneonta Faculty Research Show.

2009

Heilveil JS. Comparative phylogeography of two aquatic insect species in the state of New York. SUNY Oneonta Faculty Research Show.

2007

Tackett AG, **Heilveil JS**, Stockwell CA. Population genetics of a native fish species *Etheostoma nigrum* (Rafinesque) in three major upper Midwest river basins with anthropogenic alterations. International Summit on Evolutionary Change in Human-altered Environments, University of California, Los Angeles.

** = Graduate Student Mentee, + = Undergraduate Student Mentee*

GRANTS AND FELLOWSHIPS AWARDED

INTERNAL GRANTS

2013

Heilveil JS, State University of New York College at Oneonta.
Project Title: Biodiversity and Species Identification of Megaloptera from Thailand.
Funded by: State University of New York College at Oneonta Faculty Research and Creative Activity Grant Program
Amount Funded: $2,954.00

Heilveil JS, State University of New York College at Oneonta.
Project Title: Is unlimited otter trapping in NYS justified? Assessing population viability of American river otters in NYSDEC regions 4 and 5.
Funded by: State University of New York College at Oneonta Faculty Research and Creative Activity Grant Program
Amount Funded: $3,000.00

Goodwin M (graduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Genetic diversity of carpenter bees (*Xylocopa virginica*(L.)) in New York State
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,500.00

2012

Heilveil JS, State University of New York College at Oneonta.
Project Title: Development of Microsatellite Markers for a Commodity Species and an Ecological Indicator species.
Funded by: State University of New York College at Oneonta Faculty Research and Creative Activity Grant Program

Amount Funded: $1,500.00

Heilveil JS, State University of New York College at Oneonta.
Funded by: Faculty Development Grant, State University of New York College at Oneonta
Amount funded: $700.00

Goodwin M (undergraduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Gene flow and population sustainability of a native bee species in Otsego County, NY
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,500.00

Picucci C (graduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: The recolonization of New York State by *Acroneuria carolinensis* (Banks) after the Wisconsinan Glaciation.
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,932.00

Salvino JR (graduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: The effect of man-made dams on peripheral stream-dwelling populations of *Nigronia serricornis* (Say) (Megaloptera: Corydalidae).
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,500.00

2011

Heilveil JS, State University of New York College at Oneonta.
Funded by: Faculty Development Grant, State University of New York College at Oneonta
Amount funded: $900.00

Stevenson RM (graduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Determining the taxonomic utility of microsatellite makers developed for *Nigronia serricornis* (Megaloptera: Corydalidae) and estimation of dispersal distances of the species within New York State.
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,480.00

Mason EL (graduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Inheritance of HLA Allelles Contributing to Susceptibility of Type 1 Diabetes.
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,250.00

Salvino JR (undergraduate student) and **Heilveil JS** (faculty sponsor), State University of

New York College at Oneonta.
Project Title: Phylogeography and Post-glacial Range Expansion in *Nigronia serricornis* (Say) (Insecta: Megaloptera: Corydalidae).
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,500.00

2010

Heilveil JS, State University of New York College at Oneonta.
Funded by: Faculty Development Grant, State University of New York College at Oneonta
Amount funded: $700.00

Heilveil, JS, State University of New York College at Oneonta
Project Title: Indirect Effects of Urbanization on Natural Populations
Funded By: Faculty Research Grant, State University of New York College at Oneonta
Amount funded: $2,498

Heilveil JS, State University of New York College at Oneonta.
Project Title: Deciphering Enigmatic Origins of a Johnny Darter Population
Funded by: Faculty Research Grant, State University of New York College at Oneonta
Amount funded: $2,500

LaPilusa T (graduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Genetic diversity of *Cardisoma guanhumi* Latreille (Crustacea: Decapoda) populations on Andros Island, Bahamas.
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,100.00

Stevenson RM (graduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Development of microsatellite markers for *Nigronia serricornis* (Say) (Megaloptera: Corydalidae)
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,100.00

2009

Heilveil JS, State University of New York College at Oneonta.
Funded by: Faculty Development Grant, State University of New York College at Oneonta
Amount funded: $900.00

Heilveil JS, State University of New York College at Oneonta.
Project Title: Comparative Phylogeography: Discerning Broad Patterns of Migration in Aquatic Insects
Funded by: Faculty Research Grant, State University of New York College at Oneonta
Amount funded: $2,500

Stevenson RM (undergraduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Isolation and identification of male-specific DNA markers from

Litobranchia recurvata (Ephemeroptera: Ephemeridae)
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,500.00

DiMola V (undergraduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Phylogeography and post glacial range expansion in *Acroneuria carolinensis* (Banks) (Plecoptera: Perlidae)
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,500.00

LaPilusa T (undergraduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Mapping the distribution of *Cardisoma guanhumi* (Decapoda:Gecarcinidae) across Andros Island, Bahamas.
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,500.00

Barber A (graduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Crayfish Population Genetics: Estimation of dispersal of Non-native, Invasive Rusty Crayfish (*Orconectes rusticus*) Within the Susquehanna River Basin
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,500.00

2008

Heilveil JS, State University of New York College at Oneonta.
Project Title: Understanding Phylogenetics Through Enhanced Technology Tools
Funded by: TLTC Faculty Fellowship, SUNY College at Oneonta
Amount funded: $3,250

Heilveil JS, State University of New York College at Oneonta
Project Title: Fine-scale Phylogeographic Analysis of Two Aquatic Indicator Species in New York
Funded by: Faculty Research Grant, State University of New York College at Oneonta
Amount funded: $2,500

Chabot E (undergraduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Reintroduction of *Acroneuria frisoni* (Stark and Brown) (Plecoptera: Perlidae) to the Vermillion River, IL: a phylogeographic approach
Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,000.00

Vokral J (undergraduate student) and **Heilveil JS** (faculty sponsor), State University of New York College at Oneonta.
Project Title: Chromosome Distribution and Sex-Biased Gene Flow in *Nigronia serricornis* (Say)

Funded by: Student Initiated Grant through the State University of New York Oneonta Faculty Senate Committee on Research
Amount Funded: $1,000.00

2007

Heilveil JS, State University of New York College at Oneonta
Funded by: Library Special Projects Grant, State University of New York College at Oneonta
Amount funded: $934.15

2006

Heilveil JS, North Dakota State University
Funded by: President's Development Grant, North Dakota State University
Amount funded: $1,000

2005

Heilveil JS, North Dakota State University
Funded by: President's Development Grant, North Dakota State University
Amount funded: $1,000

2004

Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Phylogeography and Mating Habits of *Nigronia serricornis* (Say)
Funded by: School of Integrated Biology Enhancement Fund, University of Illinois
Amount funded: $500

Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Phylogeography and Mating Habits of *Nigronia serricornis* (Say)
Funded by: Francis M. and Harlie M. Clark Research Support Grant, School of Integrated Biology, University of Illinois
Amount funded: $1,000

Heilveil JS, University of Illinois, Urbana – Champaign
Funded by: Graduate College Conference Travel Grant, Graduate College, University of Illinois
Amount funded: $225

2003

Heilveil JS, University of Illinois, Urbana – Champaign
Funded by: Graduate College Conference Travel Grant, Graduate College, University of Illinois
Amount funded: $150

Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Phylogeography and Mating Habits of *Nigronia serricornis* (Say)
Funded by: On-Campus Dissertation Research Grant, University of Illinois
Amount funded: $150

2002

Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Phylogeography and Mating Habits of *Nigronia serricornis* (Say)
Funded by: On-Campus Dissertation Research Grant, University of Illinois
Amount funded: $250

Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Phylogeography and Mating Habits of *Nigronia serricornis* (Say)

Funded by: Francis M. and Harlie M. Clark Research Support Grant, School of Integrated Biology, University of Illinois
Amount funded: $1,000

2001
Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Population Genetics of *Nigronia serricornis* (Say)
Funded by: Francis M. and Harlie M. Clark Research Support Grant, School of Integrated Biology, University of Illinois
Amount funded: $1,000

2000
Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Population Genetics of *Nigronia serricornis* (Say)
Funded by: Francis M. and Harlie M. Clark Research Support Grant, School of Integrated Biology, University of Illinois
Amount funded: $1,000

1999
Heilveil JS, University of Illinois, Urbana – Champaign
Funded by: Travel support for Insect Pathology Short Course, Department of Entomology, University of Illinois
Amount funded: $200

1997
Heilveil JS, University of Illinois, Urbana – Champaign
Funded by: Departmental Fellowship, Department of Entomology, University of Illinois
Amount funded: $12000

EXTERNAL GRANTS

2010
Heilveil, JS, State University of New York College at Oneonta
Funded by: Individual Development Grant, United University Professions
Amount funded: $480
Heilveil, JS, State University of New York College at Oneonta
Funded by: Individual Development Grant, United University Professions
Amount funded: $517

2004
Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Phylogeography of *Nigronia serricornis* (Say)
Funded by: Illinois State Academy of Sciences Research Grant, Illinois State Academy of Sciences
Amount funded: $350

2002
Heilveil JS, University of Illinois, Urbana – Champaign
Project Title: Phylogeography of *Nigronia serricornis* (Say)
Funded by: Student Research Grant, North American Benthological Society Endowment, Society for the North American Benthological Society

Amount funded: $500

AWARDS

2008 Professor of the Year. SUNY College at Oneonta βββ (Biology Honors Society) *theta nu* Chapter.

Spring 2002 Incomplete List of Teacher's Ranked Excellent by Their Students. University of Illinois. BIOL 252*

Fall 2002 Incomplete List of Teacher's Ranked Excellent by Their Students. University of Illinois. IB 150*

2001 LAS Teacher Hall of Fame. Universit of Illinois. 2001

Spring 2001 Incomplete List of Teacher's Ranked Excellent by Their Students. University of Illinois. BIOL 120*

Fall 2001 Incomplete List of Teacher's Ranked Excellent by Their Students. University of Illinois. BIOL 104 *

Fall 1999 Incomplete List of Teacher's Ranked Excellent by Their Students. University of Illinois. BIOL 104 *

* This award is based on voluntarily administered Instructor and Course Evaluation (ICES) questionnaire forms maintained by the Division of Measurement and Evaluation, Center for Teaching Excellence. Instructors and teaching assistants receiving ratings in the top 30% are included on the list. Because evaluation is voluntary on the part of the instructor, DME has adopted the title "An Incomplete List of Teachers Ranked as Excellent by Their Students."

GRADUATE STUDENTS ADVISED

GRADUATED

LaPilusa T. (2009 – 2012) "Genetic population structure of *Cardisoma guanhumi* and implications for sustainable management of the species". MS Biology, SUNY College at Oneonta.

CURRENT

Cochran A (2012 – present) Non-thesis; project on "Surveys of insects in food preparation areas and their bacteria"

Mason E. (2010 – present) "Susceptibility alleles and inheritance patterns in some human genetic diseases"

Picucci C. (2012 – present) "The recolonization of New York State by *Acroneuria carolinensis* (Banks) after the Wisconsinan Glaciation"

Stevenson R. (2009 – present) "Molecular marker creation for use in population ecology"

Schermerhorn K. (2011 – present) Non-thesis; project on "Prevalence of *Borrelia burgdorferi* in *Ixodes* populations in Otsego County, NY"

Salvino J. (2012 – present) "Role of urbanization in altering patterns of gene flow in *Nigronia serricornis* (Say)"

UNDERGRADUATE STUDENTS ADVISED

Chabot E. (2008) "Reintroduction of *Acroneuria frisoni* (Stark and Brown) (Plecoptera: Perlidae) to the Vermillion River, IL: a phylogeographic approach"

Daukontas J. (2008) "Mapping gene flow: fine-scale phylogeographic structure of *Nigronia*

serricornis (Say) in New York"
Dean K. (2008) "Comparative Phylogeography: fine-scale phylogeography structure of *Acroneuria carolinensis* (Say) in New York"
DiMola V. (2009, 2010) "Phylogeography and Post Glacial range expansion in *Acroneuria carolinensis* (Banks) (Plecoptera: Perlidae)."
Dziuba S. (2008) "Local Gene Flow: Population structure of *Nigronia serricornis* in Otsego County"
Hickman Z. (2009, 2010) "The effects of sexual display on offspring sex ratio in the fantail darter (*Etheostoma flabellare* Rafinesque)"
Mastrantuono E. (2011) "Enigmatic origins of a population of *Etheostoma nigrum* Rafinesque"
Minnock A. (2008) "The use of DNA-typing to elucidate translocation history: a case study of the Johnny Darter (*Etheostoma nigrum* Rafinesque)"
Peterson B (2010) "Insects of Otsego County"
Salvino J (2011) "Phylogeography and Post-glacial Range Expansion in *Nigronia serricornis* (Say) (Insecta: Megaloptera: Corydalidae)"
Stevenson R. (2009) "Isolation and identification of male-specific DNA markers from *Litobranchia recurvata* (Ephemeroptera: Ephemeridae)"
Vokral J. (2008) "Chromosome Distribution and Sex-Biased Gene Flow in *Nigronia serricornis* (Say)"
Willsey G. (2008) "Isolation and identification of Y-linked markers for *Nigronia serricornis* (Say)"

PROFESSIONAL MEMBERSHIPS

Society for Freshwater Science
Beta Beta Beta

PROFESSIONAL SERVICE

Ad Hoc Reviewer: NSF, *American Midland Naturalist, Climatic Change, Conservation Genetics, Journal of Biogeography, Journal of Freshwater Science, Molecular Ecology, Northeastern Geoscience*

DEPARTMENTAL/COLLEGE-WIDE SERVICE

2011 – Present Biology Department Awards Committee
Spring 2008, Spring 2009 – Present College Graduate Committee (Currently Vice-chair)
2008 – Present Biology Department Graduate Committee (Currently Chair)
2007 – Present Invertebrate Collection Committee
2007 – 2008 Room 3 (Molecular Laboratory) Committee
2007 – 2008 Room 14 (Animal Research Space) Committee
2007 – Present Biology Department Curriculum Committee
2007 – Present Biological Field Station Committee
2007 – 2012 Environmental Sciences Program Committee

COMMUNITY SERVICE

05/09: "The world of Aquatic Insects", Guest Lecture to the advanced biology class, Afton Central School, Afton, NY
05/09: "The world of Aquatic Insects", Guest Lecture to 9th grade biology class, Morris Central

School, Morris, NY

05/09: "The genetic basis of behavior", Guest Lecture to 10th grade biology class, Morris Central School, Morris, NY

08/08: Guest speaker for "The Outsiders: Alienation, Isolation, and Exclusion in Film" film series, the Arkell Museum, Canajoharie, NY

03/08: "Scientific Writing for Biology", Guest Lecture to 12th grade biology, Oneonta High School, Oneonta, NY

03/08: "DNA forensics: what it's really like", Guest Lecture to 8th and 9th grade science classes, Morris Central School, Morris, NY

01/08: "DNA Forensics: Using genetic data to solve crimes", Workshop, Otsego County Police Academy, Oneonta, NY