

Lillian Pine Hancock

EDUCATION

- 2008-2010 **University of Rhode Island**, Kingston, RI. Masters of Science in Biological Sciences
- Thesis Title: Unraveling the Role of Mitochondria in Red Algal Parasite Evolution
- 2004-2008 **Trinity College**, Hartford, CT. Bachelors of Science in Biology, faculty honors
- Fall 2007 **Duke University Beaufort Marine Lab**, Beaufort, NC
- Independent study: Shell Investigation, Foraging Behavior, and Sexual Receptiveness;
Priorities in *Pagurus longicarpus*
- 1999-2004 **Waynflete School**, Portland, ME

WORK EXPERIENCE

- 2010-2012 **Research Technician**, Karol Laboratory, New York Botanical Garden, Bronx, NY
- GrAToL (Green Algal Tree of Life) research technician
- General responsibilities: ordering necessary items to fulfill grant objectives, budget management, undergrad/ intern-training, updating GrAToL website, public outreach
- Lab responsibilities: algal culturing, DNA extraction, primer design, gene-targeted PCR, Illumina Sequencing, organellar genome assembly and annotation,
- Fall 2010 **Research Assistant**, Siebel Laboratory, University of Rhode Island, Kingston, RI
- R/V New Horizon, SCRIPPS Institute of Oceanography, research cruise
- Copepod respiration in oxygen minimum zones; gene expression
- 2008-2010 **Research Assistant**, Lane Laboratory, University of Rhode Island, Kingston, RI
- Sequenced, assembled, and annotated three red algal mitochondrial genomes
- 2008-2009 **Teaching Assistant**, Introductory Plant Biology, University of Rhode Island, Kingston, RI
- Wrote and taught laboratory lectures on plant biology
- Responsible for three lab sections (~ 70 students) per semester
- Summer 2008 **Sustainable Farming Internship**, Spannocchia Foundation, Sienna, Italy
- Three-month internship in sustainability, farming, and agriculture tourism
- 2007-2008 **Supplementary Instructor of Biology**, Trinity College, Hartford, CT
- Conducted bi-weekly assistant sessions to reinforce course material
- Developed supplementary course material for Introductory Biology
- 2007 **NSF Research Experience for Undergraduates**, Shannon Point Marine Lab, Anacortes, WA
- Studied the ecology and biology of the bamboo worm, *Clymenella torquata*; an invasive polychaete that negatively impacts oyster culture operations in Samish Bay, Washington
- Worked with local shellfisheries to develop tools to mitigate the impact of the worm
- Selected by faculty to present research at the 2008 ASLO conference in Orlando, FL
- 2006-2007 **Teaching Assistant**, Intro Biology Lab and Biogeography, Trinity College, Hartford, CT
- Assisted students with laboratory procedures
- Assisted professor and conducted a weekly review session

TECHNICAL PROFICIENCY

- Computer Adobe Illustrator and Photoshop CS2, Adobe Acrobat, MS Word, Excel and Powerpoint, Geneious, Basic PERL scripting, Sequencer, McClade, FigTree, SPSS, ANOVA
- Laboratory DNA extraction, RNA extraction, PCR, qPCR, Southern blotting, Pulsed-Field Gel Electrophoresis, algal culturing, respiration/ lactate measurement, SCUBA certification
- Field Work Collecting and identifying algae in the Pacific Northwest and in New England; ecological studies assessing the distribution and ecology of the bamboo worm; sediment analysis; research cruise experience; respiration physiology

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GRANTS

2010 Rhode Island National Science Foundation EPSCoR travel award. \$1000.
GAU Mini-Grant. \$250.

PUBLICATIONS

2010 **Lillian Hancock**, Goff, L., and Lane, C. E. 2010. **Red Algae Lose Key Mitochondrial Genes In Response to Becoming Parasitic**. *Genome Biology and Evolution*. 2:897-910.

PRESENTATIONS

2010 Christopher Lane* and **Lillian Hancock**. **Comparative evolution of red algal parasite mitochondria**. ISP, Japan.
Lillian Hancock* & Chris Lane. **Comparative mitochondrial genomics in red algal parasite evolution**. Evolution, Portland, OR.
Lillian Hancock* and Chris Lane. **Mitochondria in red algal parasite evolution**. Northeast Algal Society meeting. Bristol, RI.

2009 **Lillian Hancock*** & Chris Lane. **Unraveling the role of mitochondria in red algal parasite evolution**. Society for Molecular Biology and Evolution, Iowa City.

2008 **Lillian Hancock**, Goetz, F., McDonald, P. S., Dinnel, P. **The bamboo worm invasions of Samish Bay: Ecology and control of *Clymenella torquata* in a northeast Pacific estuary**. National Shellfish Association. Providence, RI.
Lillian Hancock, Goetz, F., McDonald, P. S., Dinnel, P. **The bamboo worm invasions of Samish Bay: Ecology and control of *Clymenella torquata* in a northeast Pacific estuary**. ASLO. Orlando, FL.

SERVICE AND OUTREACH

2008-2010 **Casey Farm**, Community Sustained Agriculture farm volunteer, Saunderstown, RI
2008-2009 **Biology Student Representative**, URI Graduate School Association, Kingston, RI

REFERENCES

Dr. Christopher Lane
(Major Professor/ Advisor)
Assistant Professor Dept. of Biology
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and Oceanography
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