

# Haley Maureen Cahill Wightman

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## Education

- In Progress            PhD in Biology  
                                 Brigham Young University, Provo, UT
- 2013                    Post-Baccalaureate study in Biology and Nursing  
                                 Cleveland State University, Cleveland, OH
- 2007                    BA with distinction in World Religions, minor Sociology  
                                 McGill University, Montreal, QC, Canada
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## Research experience

- 6/2013 – present      Graduate Research Assistant  
                                 Brigham Young University, Provo, UT
- Examined systems of damselfly (Odonata) female polychromatism and sexual conflict
  - Extracted RNA from specimens for Illumina sequencing
  - Organized and indexed fossil image collection
  - Mentored undergraduate students and assisted with lab techniques and grant writing
- 5/2012 – 6/2013      Entomology Research Intern  
                                 Cleveland Museum of Natural History, Cleveland, OH
- Conducted all stages of sample preparation for DNA sequencing
  - Prepared insect specimens for display and study
  - Edited collection images and prepared for publication
  - Developed PCR primers for scale insects (Sternorrhyncha)
  - Created dataset of morphological data for ungulates (Artiodactyla) and seabats (Scoripaeiformes)
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## Publications and presentations

### Publications

Svenson, G., Hardy, N.B., Wieland, F., Wightman, H.M.C.  
Evolution of flower mimicry hymenopteran praying mantises

(Mantodea) correlated to diversification of angiosperms.  
Manuscript in progress.

### Presentations

Evolution Meeting 2013, Snowbird, UT, June 21-25, 2013 –  
“Evolution of crypsis in hymenopteran praying mantises  
(Mantodea) (Contributed talk)

Entomological Society of America Annual Meeting 2013, Austin,  
TX, November 10-13, 2013 – “Past, present, and future: phylogeny  
of Odonata” (Contributed talk)

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### Teaching experience

Fall 2013                      Teaching Assistant -- Biology 100

2002 – present              Private tutor

### Courses taken

Fall 2013

Advanced Topics in Science Education  
Graduate Seminar  
Introduction to Computer Science (C++)  
Phylogenetic Systematics  
Research Orientation

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### Membership in professional societies

Entomological Society of America  
Society of Systematic Biologists  
Paleontological Society

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### Computer skills

Adobe Creative Suite; BEAST; Geneious; Mega; Mesquite;  
Microsoft Office Suite and Visio; Mr. Bayes; \*PAUP; RAxML;  
TNT

Currently learning C++, Python, and R