

JOSEPH T. MEDWID

48 Farrell Dr., Brewster, NY 10509 • MedwidTJoseph@gmail.com • (845) 494 8296

EDUCATION:

New Mexico State University: Las Cruces, NM 88003

- Master of Science: Biology

University of Connecticut: Storrs, CT 06269 • GPA: 3.175

- Bachelor of Arts: History
- Bachelor of Science: Ecology & Evolutionary Biology
- Minor: Geography

RELEVANT COURSE WORK:

- CHEM 2241: Organic Chemistry – Studied behaviors and characteristics of organic compounds ranging from their structures to the reactions associated of these compounds
- MCB 2410: Genetics – Studied the intricacies of DNA & RNA (e.g. how it is transcribed, how it affects phenotypes, etc.) with an emphasis on the human genome
- EEB 4250: General Entomology – Prepared insect collection with over 100 specimens identified to the family level
- EEB 4230W: Methods of Ecology – Utilized software programs such as RStudio & ARCGis for preparing & displaying data
- EEB: 3269: Social Insects – Learned the phylogeny of Hymenoptera & read/discussed primary literature on phylogenetic relationships among eusocial taxa
- EEB 3899: Independent Study – Prepared tropical Odonata specimens for submission to the Barcodes of Life Database
- EEB 5895: Investigation of Species Topics – Prepared presentations regarding phytophagous taxa with an emphasis on the larval stages of Lepidoptera
- EEB 5447: Insect Phylogeny – Studied the phylogeny of arthropods as understood by the most recent scientific publications

RESEARCH EXPERIENCE:

Research Assistant/Independent Study: September 2013 – May 2014

Dr. David Wagner – Entomology Lab, University of Connecticut – Storrs CT

- Conducted a COI barcode study of Ecuadorian dragonflies & damselflies by preparing specimens for submission to the Barcodes of Life Database
- Edited & proofread letters, reports, & writings from fellow lab mates
- Databased & curated insect specimens
- Worked with fellow graduate students analyzing spatial data with the software program ARCGis

Research Assistant: May 2014 – August 2014

PhD Student Jessie Rack – Amphibian Lab, University of Connecticut – Storrs CT

- Helped conduct a study on how pheromone exposure during larval development affects adult behavior
- Captured aquatic invertebrates from both lotic & lentic habitats for feeding amphibians
- Sanitized water habitat for amphibians
- Treated amphibians with various aquatic pheromonal cues

Mosquito Identifier/Trapper: May 2015 – November 2015

Dr. Philip Armstrong – The Connecticut Agricultural Experimental Station – New Haven CT

- Prepared CO₂ traps for collecting mosquitos in over 90 unique sites across the state of Connecticut
- Identified captured specimens to the species level based on adult female morphology
- Curated & prepared identified specimens for virus testing
- Maintained colonies of adult mosquitoes by: feeding, collecting reared larvae, and preparing incubators

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American Black Duck Survey: Invertebrate & Seed Identifier: November 2015 – May 2016

Dr. Min Huang – Connecticut Department of Energy & Environmental Protection – N. Franklin CT

- Sifted through core and sweep net samples for fauna & seeds pertinent to the diet of American Black Ducks
- Identified invertebrates to the family level
- Stratified seeds based on external morphology
- Organized five months of collected data into a single excel file

Dragonfly Exuviae Identifier: December 2015 – January 2016

Mr. Ethan Nedeau – Biodrawiversity – Storrs CT

- Identified 620 Anisopteran exuviae collected from the Connecticut River
- Utilized morphological keys to accurately determine specimens to species level
- Perused through literature pertinent to the life histories & micro habitat for riverine Anisoptera

RESEARCH SKILLS:

- Proficient in the software programs: Microsoft Excel, RStudio, ARCGis
- Used Microsoft Excel in various college level & graduate level courses to complete assignments
- Skilled with identification keys to determine invertebrates to the sub-family level

VOLUNTEER EXPERIENCE:

Connecticut BioBlitz Collector & Sorter: Two Rivers Middle School – East Hartford, CT • June 2016

- Prepared blacklight traps & light sheets
- Collected specimens from light & beating sheets
- Sorted trap findings to the order & family levels

Uconn Bee-Keeping Club Vice President: University of Connecticut – Storrs, CT • Spring 2013 – May 2015

- Spread awareness of colony collapse disorder & other threats facing honey bees
- Instructed other members on how to rear & maintain a productive hive
- Collected honey from local apiaries

Project Academic Advancement: Willimantic Housing Authority – Willimantic, CT • Spring 2011 – Fall 2013

- Mentored students (grades 1-10) & helped them comprehend/finish their school work
- Monitored student behavior to ensure an intellectually productive environment
- Organized intellectually productive & engaging activities weekly

Brewster High School Student Observer: Brewster High School – Brewster, NY • May 2012 – June 2012

- Observed Mr. Yurus's classroom & teaching style for High School & AP level social studies courses
- Observed Mr. LaMoreaux's classroom & teaching style for High School & AP level physics courses
- Sat in on teacher conferences to discuss shortcomings & triumphs of the last quarter of the school year