

# Elva J.H. Yang

• E-Mail: [elvajyang@gmail.com](mailto:elvajyang@gmail.com)

## Education

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**B.S./M.A. joint degree program in Biology (Honors), *magna cum laude***

08/2007-06/2012

The City College of New York, New York, NY

## Research Experience

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**Molecular Ecology Research Laboratory, CCNY**

03/2010-Present

Advisor: Dr. David J. Lohman

Systematics and phylogeography of *Euploea* Butterflies

- Extract tissue from specimens, PCR amplification, PCR cleaning and sequencing alignments
- Use Maximum Likelihood, Parsimony and Bayesian methods to reconstruct phylogenetic tree
- Use DIVA-GIS, MaxEnt to reconstruct Pleistocene distribution of butterfly species.

**Drosophila Genetics Research Laboratory, CCNY**

07/2009-08/2010

Advisor: Dr. Tadmiri Venkatesh

Glia expression of *Rap/fzr* in the developing nervous system of *Drosophila*

- Dissected eye-brain complex of larva
- Stained eye-brain complex with antibodies
- Prepared flyfood and buffer media
- Maintained master stock of *Drosophila*

## Fieldwork Experience

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**Study Abroad in the U.S. Virgin Islands**

01/2012

- Learned to design onsite experiments
- Assessed hermit crab populations with mark-and-recapture method and followed with statistical analysis
- Measured the height of occurrence of two sympatric anole species
- Observed territoriality behavior of hummingbirds

**Field Expedition to the Philippines**

07/2011

- Collected butterfly specimens in Bohol and Cebu
- Preserved specimens in the field

## Employment Experience

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**SAT Math Instructor**, Light & Love Home non-profit organization, Brooklyn, NY

07-08/2012

- Taught a group of 10 high school students in preparation for the SAT exam

**Explainer**, New York Hall of Science, Queens, NY

2010-2011

- Interacted with visitors at the museum throughout the exhibits

**Student Aide**, Department of Biology, CCNY, NY

2009-2010

- Set up the appropriate instrumentation for lab sessions
- Prepared solutions

## Presentations

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The First Joint Congress on Evolutionary Biology, Ottawa, Canada Poster Presentation: The effects of Pleistocene climatic change on the phylogeography of <i>E. mulciber</i> (Lepidoptera: Nymphalidae: Danainae) <b>Yang, E.</b> & Lohman, D.J.	07/2012
City College Fellowships Program, 10 <sup>th</sup> Annual Research Conference Oral presentation: The effects of Pleistocene climatic change on the phylogeography of <i>E. mulciber</i> (Lepidoptera: Nymphalidae: Danainae) <b>Yang, E.</b> & Lohman, D.J.	04/2012
City College Fellowships Program, 9 <sup>th</sup> Annual Research Conference Oral presentation: Evolution and phylogeography of widespread butterflies <i>Euploea</i> in Southeast Asia (Lepidoptera: Nymphalidae: Danainae) <b>Yang, E.</b> & Lohman, D.J.	04/2011
"Einstein in the City 2011" International Research Conference Poster Presentation: Evolution and phylogeography of widespread butterflies <i>Euploea</i> in Southeast Asia (Lepidoptera: Nymphalidae: Danainae) <b>Yang, E.</b> & Lohman, D.J.	04/2011
CCAPP Annual Research Poster Presentation Evolution and phylogeography of widespread <i>Euploea</i> butterflies in Southeast Asia (Lepidoptera: Nymphalidae: Danainae) <b>Yang, E.</b> & Lohman, D.J.	12/2010

## Fellowships/Awards

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City College Fellowships Program	2010-2012
Peter F. Vallone Scholarship	2007-2012
Study/Travel Opportunities for CUNY Students (STOCS)	11/2011
City College Fellowships Summer Research Funds	07/2011
National Science and Mathematics Access to Retain Talent grant (SMART)	2009-2011
Collaboration for Leadership in Urban Science Teaching, Evaluation, and Research (CLUSTER)	2009-2010
2 <sup>nd</sup> Place in the Central Park Summer Photography Contest	08/2010

## Skills

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Basic R code  
Phylogenetic reconstruction techniques: RaxML, Mr. Bayes, TNT  
Distribution Modeling: DIVA-GIS, MaxEnt