

**ROCIO SIU NG**  
Curriculum Vitae

Department of Ecology and Evolution  
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**EDUCATION**

- 2014      **Ph.D. in Ecology and Evolution (anticipated)**  
Stony Brook University, Stony Brook, NY  
Dissertation: Phenotypic evolution of pigmentation traits in natural populations of *Drosophila melanogaster*. Advisor: John R. True
- 2006      **B.A. Honors in Biology**  
New York University, New York, NY  
Honors Thesis: Morphological evolution of the male tail in nematode species related to *Caenorhabditis elegans*. Advisor: David Fitch

**RESEARCH EXPERIENCE**

- 2010-  
current      **Dissertation Research, Stony Brook University**  
Research project investigating the contribution of the pigmentation pathway genes *pale* and *ebony* in adaptation and natural variation pigmentation traits in *Drosophila melanogaster*.  
Supervisor: John R. True
- 2007-  
2009      **Research Assistant, Stony Brook University**  
Research project investigating the putative correlation between pigmentation and parasite presence in mushroom feeding *Drosophila*.  
Supervisor: John R. True
- 2005-  
2006      **Research Assistant, New York University**  
Honors thesis project analyzing and comparing morphological cell migration in the male tail of several species of nematodes.  
Supervisor: David Fitch

**GRANTS, AWARDS, FELLOWSHIPS**

- 2013 Acceptance into the Workshop on Molecular Evolution, Marine Biological Laboratory, Woodshole, MA
- 2013 Turner Summer Research Grant, Turner Fellowship Program, Stony Brook University, NY
- 2011 SREB Doctoral Scholar Program, Southern Regional Educational Board
- 2009 Turner Summer Research Grant, Turner Fellowship Program, Stony Brook University, NY
- 2006 Turner Fellowship Program for Underrepresented Graduate Students, Stony Brook University, NY
- 2002 Presidential Honors Scholars, New York University, NY

**CONFERENCE ACTIVITY/ PARTICIPATION**

- 2013 The role of pigmentation pathway genes in phenotypic variation of melanism in natural populations of *Drosophila melanogaster* (Talk), Evolution 2013 at the Snowbird Meeting and Conference Center (June 21-15)
- 2012 Current Turner Fellows Panel, Critical Resources for Graduate Students: The road to, through and after graduate school, Turner 25<sup>th</sup> Anniversary Symposium at Stony Brook University (October 5)
- 2012 The genetics of phenotypic variation in pigmentation traits in *Drosophila melanogaster* (Talk), First joint Congress on Evolutionary Biology at the Ottawa Convention Centre (July 6-10)
- 2011 Exploration of the putative role of the *ebony* gene on variation in pigmentation and life history traits in *Drosophila melanogaster* (Poster), CDAE Celebrating Diversity and Academic Excellence at Stony Brook University (May 2)
- 2010 Phenotypic evolution of pigmentation in mycophagus *Drosophila* (Talk), Evolution 2010 at Portland State University (June 25-29)

2008 Positive correlations between pigmentation and parasite infection in *Drosophila putrida* (Talk), Evolution 2008 at the University of Minnesota

## CAMPUS TALKS

2014 Evolution of pigmentation traits in natural populations of the fruit fly species *Drosophila melanogaster*, Research Café Series at the Center for Inclusive Education, Stony Brook University

## PUBLICATIONS AND PAPERS

### Manuscripts in progress

Ng RS and True JR. The role of pigmentation pathway genes in phenotypic variation of melanism in natural populations of *Drosophila melanogaster*.

## TEACHING EXPERIENCE

2009-2013 **Research Mentor** to Undergraduate Students in Laboratory Research Projects

2012-2013 **Private Tutor** in Math and Science

2013-current Introduction to Ecological Genetics and Genomics, **Teaching Assistant**, Stony Brook University

2012-2013 From Organisms to Ecosystems, **Teaching Assistant**, Stony Brook University

2011 Fundamentals of Scientific Inquiry in the Biological Sciences, **Teaching Assistant**, Stony Brook University

2008-2010 Alliance for Graduate Education and the Professoriate (AGEP) Summer Research Institute, **Research Methods Instructor**, Stony Brook University

2009 From Organisms to Ecosystems, **Teaching Assistant**, Stony Brook University

2008 Fundamentals of Scientific Inquiry in the Biological Sciences, **Course Coordinator**, Stony Brook University

2007 Laboratory in Developmental Genetics, **Lab Instructor**, Stony Brook University

### RELATED EXPERIENCE

2008 **Illustrator** for the laboratory manual for Fundamentals of Scientific Inquiry in the Biological Sciences course at Stony Brook University

2008 **Appendix Editor** for Knisely, K. A Student Handbook for Writing in Biology

### TEACHING AREAS/COURSES PREPARED TO TEACH

Evolution  
Genetics  
Introductory Ecology Courses  
Introductory Biology Courses and Labs  
Introductory Biological Statistics

### RELATED PROFESSIONAL SKILLS

Proficiency in the R statistical software package and programming language  
Proficiency in the Python programming language  
High proficiency in Adobe Photoshop/Illustrator  
Scientific illustration  
Video editing experience  
SSI SCUBA Certification

### DEPARTMENTAL/UNIVERSITY SERVICE

**Founding member** of the SACNAS (Society for the Advancement of Chicanos and Native Americans in Science) Chapter at Stony Brook University (2013 – current)  
**Mentor** in the Community of Student Mentors Program for Underrepresented Graduate Students (2013 – current)  
**Club Officer** in the Department of Ecology and Evolution (2010 - 2013)  
**Committee member and organizer** for the Ecology and Evolution Department Student Invited Speaker series (2009 – 2013)

**Department representative** for the Graduate Students Employees Union  
Department (2012 - 2013)  
**AV Committee member** for Annual Departmental Retreat weekend (2010 – 2013)  
**Department Senator** in the Graduate Student Organization (2010-2011)  
**Co-founder** of the Center for Inclusive Education Accountability Writing Program  
(2011)

## PROFESSIONAL MEMBERSHIPS/AFFILIATIONS

Society for the Study of Evolution (SSE)  
American Association for the Advancement of Science (AAAS)  
National Science Foundation Alliances for Graduate Education and the  
Professoriate (AGEP)  
Society for the Advancement of Chicanos and Native Americans in Science  
(SACNAS)

## LANGUAGES

English, Native Speaker  
Spanish, Intermediate Speaker and high proficiency in reading and writing

## REFERENCES

John R. True, Associate Professor  
Department of Ecology and Evolution  
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