

Manisha A. Munasinghe

Curriculum Vitae - updated December 2018

PhD Candidate - Cornell University

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@ManishaMuna



@mam737



Education

- 2016 - **PhD Candidate in Computational Biology**
Cornell University - Ithaca, NY
Advisor: Andrew G. Clark
- 2011 - 2015 **B.S. in Mathematics** - GPA: 3.80/4.00
Minor in Women's and Gender Studies, Specialization - LGBTQ
Theory
Lyman Briggs College, Michigan State University - East Lansing, MI

Research Experience

- 2016 - **PhD Candidate, Clark Lab**
Department of Biological Statistics and Computational Biology
Projects (* denotes dissertation projects):
*Sexual Conflict through Mother's Curse and Father's Curse**
*Mitochondrial-Y Chromosome Epistasis in *Drosophila melanogaster***
Invasion Conditions for Sexually Antagonistic Mitochondrial-Nuclear Interactions
*Transcriptional Analysis of Dominant Suppressors of Male Fertility in *Drosophila melanogaster* males*

Publications - Peer Reviewed

* denotes equal contribution

Ågren JA*, Munasinghe MA*, Clark AG. Sexual Conflict through Mother's Curse and Father's Curse (In Review)

Ågren JA*, Munasinghe MA*, Clark AG. Mitochondrial-Y Chromosome Epistasis in *Drosophila melanogaster* (In Preparation)

Posters and Academic Presentations

- 2018 Oral Presentation: *Computational Analysis of the Consequences of Sexually Asymmetric Genetic Transmission*. Computational Biology Field Seminar, Cornell University - Ithaca NY, USA
- 2018 Guest Lecture: *Personalized Genomics and Direct-to-Consumer Testing*. BIOMG 4870: Human Genomics, Cornell University - Ithaca NY, USA
- 2018 Poster Presentation: *Mother's Curse and Father's Curse as Manifestations of Sexual Conflict*. Co-authors: JA Ågren, AG Clark. Population, Evolutionary, and Quantitative Genetics Meeting 2018 (PEQG 2018) - Madison WI, USA
- 2018 Oral Presentation: *Computational and experimental analysis of the consequences of sexually asymmetric transmission with mitochondrial-nuclear interactions*. Special Committee, Cornell University - Ithaca NY, USA
- 2017 Poster Presentation: *Mitochondrial-Y Interactions Influence Gene-Expression Profiles in *Drosophila melanogaster* males*. Co-authors: JA Ågren, AG Clark. Society for Molecular Biology and Evolution 2017 (SMBE 2017) - Austin TX, USA

Teaching Experience

- 2018 Teaching Assistant - Cornell University, BIOMG 4870: *Human Genomics*
- 2018 Teaching Assistant - Cornell University, BTRY 4830: *Quantitative Genetics and Genomics*
- 2017 Teaching Assistant - Cornell University, BIOMG 4870: *Human Genomics*
- 2013,2015 Teaching Assistant - Michigan State University, LB 220: Calculus III
- 2014,2015 Teaching Assistant - Michigan State University, LB 119: Calculus II
- 2013,2014 Teaching Assistant - Michigan State University, LB 118: Calculus I
- 2012 - 2014 Participant, *Creating Inclusive Learning Environments Workshop*, Michigan State University, LB 220: Calculus III

Leadership Activities

2018	Cornell University Graduate and Professional Student-Elected Trustee
2018 -	Institute for Healthcare Improvement (IHI) 'Pursuing the Triple Aim: A Learning and Action Collaborative' Cornell University Delegate
2018 -	Cornell University's Coalition on Mental Health Graduate Student Representative
2018	2018 Ivy+ Graduate and Professional Student Summit Organizing Committee Co-Chair
2017 - 2018	Cornell University's Graduate and Professional Student Assembly Executive Vice-President
2016 - 2018	President of Cornell University's Computational Biology Graduate Student Association
2016 - 2018	Cornell University's Graduate and Professional Student Assembly Computational Biology Field Representative
2016 - 2017	Cornell University's Graduate and Professional Student Assembly Vice-President for Communications
2016 - 2017	Cornell University's University Assembly Graduate and Professional Student Representative

Professional Development

2018	Cornell University Intergroup Dialogue Project
2018	American Association for the Advancement of Science (AAAS) Catalyzing Advocacy in Science and Engineering (CASE) Workshop Cornell University Delegate
2016,2017	Ivy+ Graduate and Professional Student Summit Cornell University Delegate
2017	Colman Leadership Program for PhD Students, Diversity Programs in Engineering, Cornell University

Associations

2018	Genetics Society of America (GSA) - <i>Member</i>
2017	Society for Molecular Biology and Evolution (SMBE) - <i>Member</i>