

**Manisha A. Munasinghe**, PhD Candidate  
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## Professional Preparation

Michigan State University	Mathematics	B.S.	2011 - 2015
Cornell University	Computational Biology	Ph.D.	2015 -

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## Appointments

2016 - **PhD Candidate, Clark Lab**  
Department of 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*

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## Publications - Peer Reviewed

\* denotes equal contribution

Ågren JA\*, **Manisha Munasinghe\***, and Andrew G. Clark. 2019. "Sexual Conflict through Mother's Curse and Father's Curse." *Theoretical Population Biology*, 129 (10): 9-17. <https://doi.org/10.1016/j.tpb.2018.12.007>.

Ågren JA\*, **Manisha Munasinghe\***, and Andrew G. Clark. "Mitochondrial-Y Chromosome Epistasis in *Drosophila melanogaster*" *Proceedings B* (Submitted)

Holman AR\*, Manisha Munasinghe, Nancy M. Boninin, and Andrew G. Clark. "Second-site Modifiers of the *Drosophila* C9orf72 Model for ALS" (In Preparation).

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## Posters and Academic Presentations

- 2019      Oral Presentation: *Consequences of Sexually Asymmetric Genetic Transmission*. Computational Biology Graduate Student Recruitment Research Presentation, Cornell University - Ithaca NY, USA
- 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
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## Teaching Experience

- 2019      Cornell Center for Teaching Innovation GET SET Workshops:  
- Understanding How Your Students Learn  
- Using Active Learning Strategies In Your Teaching  
- Grading Effectively  
- The Role of TAs In Cultivating an Inclusive Classroom  
- How Do I Know My Students Are Learning Before the Semester Ends
- 2019      Cornell Center for Teaching Innovation Active Learning Institute Participant
- 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

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## Leadership Activities & Service

2019 - Cornell University Internal Mental Health Review Committee

2019 Cornell University Expanding Your Horizons Demo Lead: Flying into the Gene Pool

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

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## Professional Development

2019 Cornell University's NextGen Professor's Program 2019 - 2020 Cohort

2019 Cornell University's Future Professors Institute: Advancing Diversity in the Academy

2019	Computational Biology Graduate Student Invited Seminar Speaker Event Organizer
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

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## Awards

2018-2019	Joe and Rita Calvo Teaching Award
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## Associations

2020	Edward A. Bouchet Graduate Honor Society - <i>Member</i>
2018	Genetics Society of America (GSA) - <i>Member</i>
2017	Society for Molecular Biology and Evolution (SMBE) - <i>Member</i>