

# GLAM-Evogen

Syracuse University, August 24, 2024

<b>8:30am - 9:25am</b> <b>Registration - Breakfast/coffee</b>	
<b>9:30am - 10:45am - Talk Session 1</b>	
<b>9:30 am - 9:45 am</b>	<b><i>Charikleia Karageorgiou</i> (University at Buffalo)</b> Paleolithic gene duplications primed adaptive evolution of human amylase locus upon agriculture
<b>9:45 am - 10:00 am</b>	<b><i>Kwondo Kim</i> (The Jackson Laboratory)</b> An Alu insertion in OCA2 may have contributed to light pigmentation in Denisovans and present-day Melanesians
<b>10:00 am - 10:15 am</b>	<b><i>Tharindu Premachandra</i> (McMaster University)</b> Sex chromosome conservation through multiple allotetraploidization events in the African clawed frog subgenus <i>Silurana</i> , genus <i>Xenopus</i>
<b>10:15 am - 10:30 am</b>	<b><i>Brian Kirz</i> (University of Rochester)</b> Insights into rapid genome expansion in the North American red squirrel
<b>10:30 am - 10:45 am</b>	<b><i>Jiarun Chen</i> (Columbia University)</b> Polygenic Adaptation under Recurrent Changes in Environment
<b>10:45am - 11:15am</b> <b>Coffee Break</b>	
<b>11:15am - 12:15pm - Talk Session 2</b>	
<b>11:15am - 11:30am</b>	<b><i>Joy Zhichun Zhang</i> (Cornell University)</b> Bayesian phylodynamic inference of population dynamics with dormancy
<b>11:30am - 11:45am</b>	<b><i>Daniel Seidman</i> (University of Rochester)</b> Investigating mutation rates in pedigreed populations using low coverage data
<b>11:45am - 12:00pm</b>	<b><i>Jeremy Summers</i> (University of Rochester)</b> The multigenerational impact of gene flow in a natural population

12:00am - 12:15pm	<b>Peiyu (Perry) Xu (Cornell University)</b> e3SIM: A novel epidemiological-ecological-evolutionary simulation framework for genomic epidemiology
<b>12:15pm – 1:15pm</b>	<b>Lunch</b>
<b>1:15pm – 2:30pm</b>	<b>Poster session</b>
<b>2:45pm -3:45pm - Talk Session 3</b>	
2:30pm - 2:45pm	<b>Jolie Carlisle (Cornell University)</b> Evolutionary and Genetic Investigation of Male and Female Molecular Control of the <i>Drosophila melanogaster</i> Mating Plug
2:45pm - 3:00pm	<b>Martin Knytl (McMaster University)</b> Synthetic sex chromosomes generated by CRISPR/Cas9: Haplosufficiency mediates the origin of a new Y chromosome and concomitant extinction of an ancestral W chromosome
3:00pm - 3:15pm	<b>Antonio Gomez (Syracuse University)</b> Evolution of ejaculate structures
3:15pm - 3:30pm	<b>Sushant Potdar (Cornell University)</b> Neurogenomic causes and proteomic consequences of male mate preference learning in two butterflies
<b>3:30pm - 3:45pm</b> <b>Break</b>	
3:45pm - 4:00pm	<b>You Chen (Cornell University)</b> Directionality of transcriptional regulatory elements
4:00pm – 4:15pm	<b>Zhaozhi Li (Cornell University)</b> Multi-drug Cancer Adaptive Therapy with Deep Reinforcement Learning
<b>4:15pm - 5:00pm Keynote</b> <b>Shaila Musharoff (Cornell University)</b> Admixture as a lens into human complex trait architecture	
<b>5:30pm -</b> Adjourn + Happy hour at Harvey's Garden ( <a href="https://www.harveysgardensyr.com">https://www.harveysgardensyr.com</a> )	



## POSTER PRESENTATIONS:

1	Benjamin C. Haller (Cornell)	<i>SLiM: evolutionary simulation software</i>
2	Bryan Guo (Toronto)	<i>Functional Impact of Extracellular Loop 2 Motif in Cetacean Rhodopsin</i>
3	Sarah Kassem (Buffalo)	<i>Deciphering the copy number variation in the Amylase Locus in Nile Rats shed light on diet-induced diabetes</i>
4	Alycia Johnson (Rochester)	<i>Genome-wide scans for selection reveal the impact of climate in a widely-distributed social wasp</i>
5	Dominic Hockenbury (ESF)	<i>Characterizing BGLUC in Drosophila melanogaster</i>
6	Emily Yarbrough (Binghamton)	<i>An atrazine gradient differentially affects patterns of sexual dimorphism for Drosophila melanogaster development time</i>
7	Lindsey Siao (Buffalo)	<i>Unraveling global patterns of pepsinogen gene copy number variation provides insights into human dietary evolution</i>
8	Amanda Ivanoff (Buffalo)	<i>Investigating the mechanism of evolution of an alternative parturition signal</i>
9	Freddie Xu (Cornell)	<i>A screen for modifiers in the sex determination pathway of Drosophila melanogaster</i>
10	Henna Domian (Cornell)	<i>The Impact of Socioeconomic Status on Breast Cancer Polygenic Score Performance</i>
11	Jaclyn Liquori (Cornell)	<i>Sexual Dimorphism in LDL-C Measurements and Gender Bias in Statin Treatment Rates</i>
12	Sylvia Han (Cornell)	<i>A novel identity-by-descent approach for detecting genotype errors in large sequencing datasets</i>
13	Luane Jandira Bueno Landau (Buffalo)	<i>Ancestral Mammalian Salivary Gene Expression: A Comparative Transcriptomic Analysis</i>
14	Logan Edvalson (Rochester)	<i>Satellite DNA regulation &amp; the mechanism of Segregation Distorter</i>
15	Tyler Handler (Rochester)	<i>Genomic mapping of the suppressor of Segregation Distorter in D. melanogaster</i>
16	Ben McCormick (Cornell)	<i>Evidence consistent with the Stellate array of Drosophila melanogaster being an active meiotic drive system</i>
17	Ryan Chaffee (Cornell)	<i>Developing a model for conservation of animal populations experiencing human-induced habitat fragmentation</i>
18	Oona Shigeno Risse- Adams (Cornell)	<i>The environmental effect of social determinants of health and race/ethnicity on human trait and disease outcomes</i>