

# Arun Durvasula

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## Education

PhD Human Genetics, University of California, Los Angeles (expected 2021)

Advisors: Kirk E. Lohmueller, Sriram Sankararaman

Committee members: Nelson Freimer, Jason Ernst

BS Biotechnology, University of California, Davis 2015

## Experience and Employment

Research Assistant, Hancock Lab. MFLP/MPI-Plant Breeding  
Research Intern, Ross-Ibarra Lab. University of California, Davis.

June 2015 - Sept 2016

June 2013 - June 2015

## Grants and Awards

Kenneth I. Shine Fellowship, UCLA	2018
Stephen D. Cederbaum Travel Award, UCLA Genetics and Genomics	2018
Graduate Research Fellowship Program, National Science Foundation	2018
Vienna Biocenter Summer Internship Scholarship	2015
Undergraduate Travel Award, UC Davis Plant Sciences	2015

## Publications

\* - equal contribution

### *Submitted*

1. **Durvasula A**, Sankararaman S. Recovering signals of ghost archaic admixture in the genomes of present-day Africans (2019). bioRxiv 285734; doi: <https://doi.org/10.1101/285734>

### *Published*

1. **Durvasula A**, Sankararaman S. A statistical model for reference-free inference of local archaic ancestry (2019). *PLoS Genetics*.
2. Huber CD\*, **Durvasula A**\*, Hancock AM, Lohmueller KE. Gene expression drives the evolution of dominance (2018). *Nature Communications*.
3. Schumer M, Xu C, Powell D, **Durvasula A**, Skov L, Holland C, Sankararaman S, Andolfatto P, Rosenthal G, Przeworski M. Natural selection interacts with the local recombination rate to shape the evolution of hybrid genomes (2018). *Science*.
4. Schweizer RM, **Durvasula A**, Smith J, Vohr SH, Stahler DR, Galaverni M, Thalmann O, Smith D, Randi E, Green RE, Lohmueller KE, Novembre J, Wayne RK. The evolutionary history of a selectively swept coat color and immunity locus in North American wolves (2017). *Molecular Biology and Evolution*.
5. **Durvasula A**\*, Fulgione A\*, Gutaker RM, Alacakaptan SI, Flood PJ, Neto C, Alonso-Blanco C, Burbano HA, Pico FX, Tsuchimatsu T, Hancock AM. African genomes illuminate the early history and transition to selfing in *Arabidopsis thaliana* (2017). *Proceedings of the National Academy of Sciences*.

F1000 recommended, Highlighted in: *Science, Nature Plants*

6. **Durvasula A\***, Hoffman PJ\*, Kent TV, Liu C, Kono TJY, Morrell PL, Ross-Ibarra J. (2016), angsd-wrapper: utilities for analysing next-generation sequencing data. *Mol Ecol Resour.*  
Software available: <https://github.com/mojaveazure/angsd-wrapper>
7. Beissinger T, Wang L, Crosby K, **Durvasula A**, Hufford M, Ross-Ibarra J. Recent demography drives changes in linked selection across the maize genome (2016). *Nature Plants*.

## Presentations

1. Demography drives differences in the distribution of gene expression (conference talk), SMCB, 2018
2. A statistical model for reference free inference of local divergent ancestry (invited), Human Genetics Seminar Series, UCLA, 2018
3. Deep learning reveals local archaic ancestry, Presentation at RECOMB-Genetics, Los Angeles, CA, 2017
4. Population history of island *Arabidopsis thaliana*, Presentation at Vienna Biocenter Summer Symposium, Vienna, Austria, 2015

## Teaching and Service

Peer review: G3: Genes, Genomes, Genetics (3), Molecular Ecology Resources (2), PLoS Genetics (1), ISMB (1)

Guest lecture: The neutral theory of evolution (UCLA)

Teaching assistant: Population Genetics (Undergraduate level course; UCLA), Spring 2018, 2019

Teaching assistant: Ecological Genomics (Graduate level course; UC Davis), Winter 2015

Mentoring: Scott Shi (undergraduate, UCLA); Mario Paciuc, Elliot Kang (Bruins in Genomics, UCLA)

## Society memberships

Society for Molecular Biology and Evolution (SMBE)

American Society for Human Genetics (ASHG)