ARIELLA GLADSTEIN, PH.D.

aglad@med.unc.edu \(\phi \) github.com/agladstein

Expertise: Human population genetics, genomics, computational biology, bioinformatics, statistics

EDUCATION

University of Arizona, Tucson, AZ

August 2018

PhD in Ecology and Evolutionary Biology

Minor in Mathematics

Beloit College, Beloit, WI

May 2011

B.S. in Mathematical Biology & Russian, Cum Laude

Departmental Honors: Mathematical Biology

RESEARCH EXPERIENCE

Postdoctoral Fellowship

2018 - present

Schrider Lab Department of Genetics, University of North Carolina, Chapel Hill

Project: Inference of demographic history with deep learning

Dissertation Research

2011 - 2018

Hammer Lab Ecology and Evolutionary Biology, University of Arizona Dissertation: Inference of recent demographic history of population isolates using genome-wide high

density SNP arrays and whole genome sequences

TEACHING EXPERIENCE

ECOL 320 Genetics

Fall 2014, 2015, 2016

Graduate Teaching Assistant

University of Arizona

ECOL 182L Intro to Ecology and Evolutionary Biology Lab

Graduate Teaching Assistant

Spring 2015

University of Arizona

BIOL 247 Biometrics

Teaching Assistant

Spring 2011
Beloit College

SELECTED PUBLICATIONS

Adrion, J. R.*, Cole, C. B.*, Dukler, N.*, Galloway, J. G.*, **Gladstein, A. L.***, Gower, G.*, Kyriazis, C.C.*, Ragsdale, A.P.*, Tsambos, G.*, ..., Gravel, S., Gutenkunst, R.N., Lohmeuller, K.E., Ralph, P.L., Schrider, D.R., Siepel, A., Kelleher, J., Kern, A.D. 2019. A community-maintained standard library of population genetic models. *bioRxiv*. doi: https://doi.org/10.1101/2019.12.20.885129

Gladstein A.L.* and Hammer M.F. 2019. Substructured population growth in the Ashkenazi Jews inferred with Approximate Bayesian Computation. *Molecular Biology and Evolution*. 36(6): 1162-1171. doi: https://dx.doi.org/10.1093/molbev/msz047

Gladstein A.L.* et al. 2018. SimPrily: A Python framework to simplify high-throughput genomic simulations. SoftwareX, 7, 335-340. https://doi.org/10.1016/j.softx.2018.09.003

Gladstein A.* and Hammer M.F. 2016. Population Genetics of the Ashkenazim. In: eLS. John Wiley & Sons, Ltd: Chichester. pp. 1-8. https://doi.org/10.1002/9780470015902.a0020818.pub2

Full bibliography: https://www.ncbi.nlm.nih.gov/myncbi/ariella.gladstein.1/bibliography/public/

^{*}First author

Gladstein A.L.[†], Schrider R.D. Demographic model selection with deep learning. Probabilistic Modeling in Genomics. 2019. Aussois, France.

Gladstein A.L.[†], Hammer M.F. Substructured population growth in the Ashkenazi Jews inferred with Approximate Bayesian Computation. UNC Women in Computing Research Symposium. 2019. Chapel Hill, NC.

Gladstein A.L.[†], Hammer M.F. Substructured population growth in the Ashkenazi Jews inferred with Approximate Bayesian Computation. Probabilistic Modeling in Genomics. 2018. Cold Spring Harbor, NY.

Gladstein A.L.[†] Inference of evolutionary history with Approximate Bayesian Computation. Open Science Grid All-Hands Meeting. 2018. Salt Lake City, Utah.

Gladstein A.L. † , et al. Efficient pipeline for whole genome simulation and summary statistic calculation with flexible demographic models. Meeting of the American Society for Human Genetics. 2017. Orlando, FL.

AWARDS

2017-2020
2013-2014
2011-2013
2009
2007-2011

WORKSHOPS AND HACKATHONS

SMBE satellite meeting on Speciation Genomics, Tjarno, Sweden (3 days)	06/2019
NCBI RNA-Seq in the Cloud hackathon, Chapel Hill, NC (3 days)	03/2019
Cyber Carpentry, Chapel Hill, NC (2 weeks)	06/2018
XSEDE HPC Workshop: Big Data, Tucson, AZ (2 days)	02/2018
Open Science Grid User School, Madison, WI (1 week)	07/2017

COMMUNITY SERVICE AND OUTREACH

Mentoring Undergraduate interns in computer science, Tucson, AZ	2017
Teaching in community	
Cyber Carpentry workshop, Chapel Hill, NC	2019
Research Bazaar workshop on R, Tucson, AZ	2018
CyVerse Container Camp, Tucson, AZ	2018
Software Carpentry on Unix/Bash, Python, and Git, Tucson, AZ	2017
Tucson Womens Hackathon workshop on Git, Tucson, AZ	2017
Population Genetics Module at the Kino School, Tucson, AZ	2013
Judge	
Graduate & Professional Student Council Travel Grants, Tucson, AZ	2012, 2016, 2017, 2018
Tucson Magnet High School Science Fair, Tucson, AZ	2012, 2015
EEB Undergraduate Research Poster Session, Tucson, AZ	2012

[†]Presenter