

# Jennifer Hamlin

APHL BIOINFORMATICS FELLOW

Enteric Diseases Laboratory Branch, Centers for Disease Control and Prevention, Atlanta, GA, USA

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*I am a scientist with 10+ years of experience in classical genetics, genomics, and evolutionary biology. My training includes using a range of tools - bioinformatics, genomics, population genetics, molecular evolution with experimental design in mind. Over the years as my computational skills increased, the genomes of the organisms I work on get smaller! I, now, work at the interface of public health, tool development, and understanding organisms which can cause to humans.*

## Education

### University of Georgia

PH.D. IN GENETICS

Athens, GA

2015

### University of North Carolina - Asheville

B.S. IN BIOLOGY

Asheville, NC

2010

## Appointments

### Centers for Disease Control and Prevention

APHL BIOINFORMATICS FELLOW

Atlanta, GA

Sep-19–Current

- Tinsel - an Rshiny application for annotating outbreak trees

### University of Georgia

BENSASSON LAB POST-DOCTORAL RESEARCHER

Athens, GA

Oct-17–Aug-19

- Population genomics of yeast

### Indiana University

MOYLE LAB POST-DOCTORAL RESEARCHER

Bloomington, IN

Jun-15–Sep-19

- Speciation and genomics in wild tomatoes

## Skills

### Analytical

GENOMICS, BIOINFORMATICS, DATA SCIENCE, REPRODUCIBLE RESEARCH, STATISTICS, EXPERIMENTAL DESIGN

### Programming

R - EXPERT, BASH - EXPERT, AWK - PROFICIENT, PYTHON - EXPERT

### Tools

GIT/GITHUB, HIGH PERFORMANCE COMPUTING, CONDA/ANACONDA

## Publications

### First author

#### JAP Hamlin, MS Hibbins, LC Moyle

*Evolution Letters*

ASSESSING BIOLOGICAL FACTORS AFFECTING POSTSPECIATION INTROGRESSION

2020

#### JAP Hamlin, GB Dias, CM Bergman, D Bensasson

G3

PHASED DIPLOID GENOME ASSEMBLIES FOR THREE STRAINS OF CANDIDA ALBICANS FROM OAK TREES

2019

#### JAP Hamlin, NA Sherman, LC Moyle

G3

TWO LOCI CONTRIBUTE EPISTASTICALLY TO HETEROSPECIFIC POLLEN REJECTION, A POSTMATING ISOLATING BARRIER BETWEEN SPECIES

2017

#### JAP Hamlin, TJ Simmonds, ML Arnold

*Biological Journal of the Linnean Society*

NICHE CONSERVATISM FOR ECOLOGICAL PREFERENCE IN THE LOUISIANA IRIS SPECIES COMPLEX

2017

## JAP Hamlin, ML Arnold

NEUTRAL AND SELECTIVE PROCESSES DRIVE POPULATION DIFFERENTIATION FOR IRIS HEXAGONA

*Journal of Heredity*

2015

## JAP Hamlin, ML Arnold

DETERMINING POPULATION STRUCTURE AND HYBRIDIZATION FOR TWO IRIS SPECIES.

*Ecology and Evolution*

2014

## Non-first author

### ML Arnold, AN Brothers, JAP Hamlin, SJ Taylor, NH Martin

DIVERGENCE-WITH-GENE-FLOW—WHAT HUMANS AND OTHER MAMMALS GOT UP TO

*Reticulate Evolution*

2015

### ML Arnold, JAP Hamlin, AN Brothers, ES Ballerini

NATURAL HYBRIDIZATION AS A CATALYST OF RAPID EVOLUTIONARY CHANGE

*Rapidly evolving genes and genetic systems*

2012

### ML Arnold, ES Ballerini, AN Brothers, JAP Hamlin, CDA Ishibashi, ...

THE GENOMICS OF NATURAL SELECTION AND ADAPTATION: CHRISTMAS PAST, PRESENT AND FUTURE (?).

*Plant Ecology & Diversity*

2012

### K Marshall, J Hamlin, M Armstrong, J Mendoza, C Lee, D Pieri, R Rivera, ...

SCIENCE FOR A SOCIAL REVOLUTION: ECOLOGISTS ENTERING THE REALM OF ACTION

*The Bulletin of the Ecological Society of America*

2011

## Preprints

### J Hamlin, LC Moyle

SPATIAL PROXIMITY DETERMINES POST-SPECIATION INTROGRESSION IN SOLANUM

*bioRxiv*

2019

## Presentations

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### Talks

#### University of Georgia

POPULATION GENOMICS OF WILD AND DOMESTICATED YEAST.

*Athens, GA*

2018

#### Society for the Study of Evolution

NO EASY D: LITTLE EVIDENCE FOR INTROGRESSION FROM WHOLE-GENOME DATA IN WILD SOLANUM.

*Portland, OR*

2017

#### Society for the Study of Evolution

EPISTASIS FOR POSTMATING PREZYGOTIC ISOLATION.

*Austin, TX*

2016

#### Indiana University Brown Bag

SPATIAL, TEMPORAL, AND GENOME-WIDE PATTERNS OF DIFFERENTIATION FOR THE LOUISIANA IRIS SPECIES COMPLEX.

*Bloomington, IN*

2015

#### Society for the Study of Evolution

WHAT DRIVES PHENOTYPIC AND GENETIC DIVERGENCE FOR IRIS HEXAGONA?

*Raleigh, NC*

2014

#### Society for the Study of Evolution

COMPARATIVE PHYLOGEOGRAPHY OF TWO LOUISIANA IRISES.

*Snowbird, UT*

2013

### Posters

#### Fungal Genetics Conference

GENETIC ADMIXTURE AND THE ORIGINS OF CLINICAL *SACCHAROMYCES CEREVISIAE* YEAST.

*Pacific Grove, GA*

2019

#### Cellular and Molecular Fungal Biology: Gordon Research Conference

CLINICAL *SACCHAROMYCES CEREVISIAE* ARE ADMIXED DOMESTICATED YEAST.

*Holderness, NH*

2018

#### Southeastern Population Ecology & Evolutionary Genetics.

HIGHER PREVALENCE OF GENETIC EXCHANGE GIVEN GEOGRAPHIC PROXIMITY.

*Laural Hill, NC*

2017

#### SolGenomics

TWO LOCI CONTRIBUTE EPISTASTICALLY TO HETEROSPECIFIC POLLEN TUBE REJECTION, A POSTMATING ISOLATING BARRIER BETWEEN SPECIES.

*Davis, CA*

2016

#### Botany

WHAT DRIVES PHENOTYPIC AND GENETIC DIVERGENCE FOR IRIS HEXAGONA?

*Boise, ID*

2014

## R-Packages

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### Tinsel

<https://github.com/jennahamlin/Tinsel>

“AN R PACKAGE FOR VISULIZATING AND ANNOTATING PHYLOGENETIC TREES”

2019

- Author and maintainer

## Mentoring

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University of Georgia

- E. Scopel Ferreira Da Costa
- J. Pena
- T. Simmonds
- K. Miler
- J. Foley
- S. Duque
- B. Webb

Indiana University

- A. Huh
- J. Breisch
- S. Henderson
- L. Howser
- C. Plasterer
- D. Shukla
- S. Seo