

# Paul D. Blischak

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## Education

**In progress** – Ph.D., Evol., Ecol., & Org. Biology (EEOB), The Ohio State University (OSU). Graduate minor in Statistics (completed).

**2012** – B.Sc., Mathematics, The Ohio State University. Minors: Statistics, Spanish.

## Professional Experience

**2015–current** – Graduate Research Associate, Dept. of EEOB, OSU.

**2014** – Teaching Associate, MBI Undergraduate Summer Program (Phylogenetics Lab), OSU.

**2013–2015** – Graduate Teaching Associate, Dept. of EEOB, OSU.

**2012–2013** – Graduate Student Fellow, Dept. of EEOB, OSU.

**2011–2012** – Undergraduate Research fellow, RUMBA Program, OSU.

## Publications

3. Wolfe, A. D., T. Necamp, S. Fassnacht, **P. D. Blischak**, and L. S. Kubatko. *Accepted*. Population genetics of *Penstemon albomarginatus* (Plantaginaceae), a rare Mojave Desert species of conservation concern. To appear in *Conservation Genetics*.
2. **Blischak, P. D.**, L. S. Kubatko, and A. D. Wolfe. 2016. Accounting for genotype uncertainty in the estimation of allele frequencies in autopolyploids. *Molecular Ecology Resources* **16**: 742–754.
1. **Blischak, P. D.**, A. J. Wenzel, and A. D. Wolfe. 2014. Gene prediction and annotation in *Penstemon* (Plantaginaceae): a workflow for marker development from extremely low-coverage genome sequencing. *Applications in Plant Sciences* **2**: 1400044.

## Presentations

(\*presenting author, ‡undergraduate author)

10. **Blischak, P. D.\*** April 2016. Hierarchical models for genotype uncertainty in autopolyploids. NHS meeting, Dept. of Human Genetics, Univ. of Chicago. Chicago, IL.
9. **Blischak, P. D.\***, L. S. Kubatko and A. D. Wolfe. July 2015. Estimating allele frequencies in non-model autopolyploids using high throughput sequencing data. Botany 2015. Edmonton, Alberta. **figshare**, doi: <http://dx.doi.org/10.6084/m9.figshare.1495514>.
8. Wolfe, A. D.\*, B. Stone‡, N. Padmalwar‡, **P. D. Blischak** and L. S. Kubatko. July 2015. *Hyobanche sanguinea* (Orobanchaceae): there's more than meets the eye. Botany 2015. Edmonton, Alberta.
7. Zacarias-Correa, A. G., A. J. Wenzel, **P. D. Blischak**, A. D. Wolfe\*, E. P. Calix and M.-S. Perez. July 2015. Molecular phylogeny of *Penstemon* section *Fasciculus* (Plantaginaceae) based on single copy orthologous genes (COSII). Botany 2015. Edmonton, Alberta.

6. **Blischak, P. D.\*** More genomes, more problems. February 2015. Graduate Student Forum Speed-Talks, OSU.
5. **Blischak, P. D.\***, A. D. Wolfe and L. S. Kubatko. October 2014. Phylogenomics and the coalescent model: new tools for new data. EEOB Graduate Student Talks, OSU.
4. **Blischak, P. D.\***, A. D. Wolfe and L. S. Kubatko. July 2014. Inferring large phylogenies under the coalescent model using SNPs from next-generation sequence data. Botany 2014: Boise, ID. [figshare](http://dx.doi.org/10.6084/m9.figshare.1436072), doi: <http://dx.doi.org/10.6084/m9.figshare.1436072>.
3. Wolfe, A. D.\* and **P. D. Blischak**. July 2014. Patterns of diversity in *Penstemon* (Plantaginaceae). Botany 2014: Boise, ID.
2. **Blischak, P. D.\***, A. J. Wenzel, M. R. Stevens and A. D. Wolfe. August 2013. How low can you go? Gene predictions and putative annotations in four species of *Penstemon* (Plantaginaceae) from ultra low-coverage 454 sequencing. Botany 2013: New Orleans, LA.
1. Wenzel, A. J.\*, **P. D. Blischak** and A. D. Wolfe. August 2013. Molecular phylogenetic analysis of *Penstemon* (Plantaginaceae) section *Ericopsis*: evaluating relationships and taxonomic affinities. Botany 2013: New Orleans, LA.

## Software

POLYFREQS: an R package for Bayesian population genomics in autopolyploids. Available on GitHub <https://github.com/pblischak/polyfreqs> and CRAN <https://cran.r-project.org/package=polyfreqs>.

## Grants and Awards

2016 – NSF Doctoral Dissertation Improvement Grant (\$20,020.00).  
 2015 – ASPT Graduate Student Research Grant (\$800.00).  
 2014 – SSB Graduate Student Research Award (\$1,915.00).  
 2014 – NSF Graduate Research Fellowship, Honorable Mention.  
 2014 – NIMBioS Visiting Graduate Student Fellowship (advised by Dr. Brian O'Meara).  
 2013 – Beatley Award for Field Work in Plant Systematics, OSU Herbarium (\$1,050.00).  
 2012 – Distinguished University Fellowship, OSU Graduate School.  
 2011 – Undergraduate Research Fellowship, RUMBA Program, OSU.

## Service

2015-current – Graduate Student Representative: Advisory Committee; Graduate Student Advisor: Undergraduate Evolution and Ecology Club.  
 2014 – Judge: OSU Denman Undergraduate Research Forum.  
 2014 – Graduate Student Representative: Diversity Committee.  
 2013 – Volunteer: OSU Museum of Biological Diversity Open House.  
 2013 – Graduate Student Representative: Seminar Committee.  
**Journal reviews** – *Molecular Ecology*, *Molecular Ecology Resources*, *Molecular Phylogenetics and Evolution*.

## **Undergraduate advising**

**2015:** Coleen Thompson and Emiko Waight; **2014:** Naharika Padmalwar and Benjamin Stone; **2013** Evan Carfagno and Benjamin Stone; **2012** Erin Harvey and Shannon Kilkenny.

## **Membership**

**2013-current** – American Penstemon Society (APS), American Society of Plant Taxonomists (ASPT), Botanical Society of America (BSA), Society of Systematic Biologists (SSB), Society for the Study of Evolution (SSE).

*Last updated: 2 June, 2016*