PAUL BILINSKI

801 East 8th Street 209 ◇ Davis, CA 95616
Phone: 760-458-7696 ◇ Email: pbilinski@ucdavis.edu

EDUCATION

Ph.D., Plant Biology, Focus in Systematics and Evolution
University of California, Davis, Department of Plant Sciences, Expected 2015

M.S., Biological Sciences
University of California, San Diego, Department of Biology, June 2010

B.S., Ecology, Behavior, and Evolution
University of California, San Diego, Revelle College, June 2008

RESEARCH EXPERIENCE

Graduate Student Researcher, Ross-Ibarra Lab at UC Davis, 2010-present
Graduate Research Assistant, Kohn Lab at UC San Diego. 2007-2010
Research Intern, University of Minnesota at Cedar Creek Natural History Area, 2007

PUBLICATIONS

Bilinski, P, Distor, K, Gutierrez-Lopez, J, Mendoza Mendoza, G, Shi, J, Dawe, RK, and Ross-Ibarra, J. Diversity and evolution of the centromere repeats in the maize genome. Chromosoma 0009-5915.

Waters, AJ, **Bilinski, P**, Eichten, SR, Vaughn, MW, Ross-Ibarra, J, Gehring, M, Springer, NM (2013). Comprehensive analysis of imprinted genes in maize reveals limited conservation with other species and allelic variation for imprinting. Proceedings of the National Academy of Sciences 110:19639-19644.

Hufford, MB, **Bilinski, P**, Pyhäjärvi, T, and Ross-Ibarra, J (2012). Teosinte as a Model System for Population and Ecological Genomics. Trends in Genetics 28:606-615.

Bilinski, P and Kohn, JR (2012). Sites of Self-Pollen Tube Inhibition in Papaveraceae (sensu lato). Plant Systematics and Evolution 298:1239-1247.

AWARDS AND FELLOWSHIPS

Howie Smith Honorary Pioneer Plant Breeding Fellowship, DuPont Pioneer, 2012, 2013
Summer Graduate Student Researcher Award in Engineering and CompSci, 2012, 2013, 2014
UC MEXUS Dissertation Research Grant, 2013-2015
Henry A. Jastro Graduate Research Scholarship Award, 2013, 2014
Monsanto Endowed Student Fund in Agricultural Biotechnology, 2013
Paulden F. and Dorathea Knowles Scholarship, UC Davis Plant Sciences, 2012
John and Terry Kubota Scholarship, UC Davis Plant Sciences, 2012
Beatrice Oberly and S. Atwood McKeehan Fellowship, 2011-2012 Academic Year
UCD and Humanities Graduate Research Award, 2011
Graduate Student Research Assistantship from Plant Sciences at UC Davis, 2010-2014
TA teaching Award, UCSD 2009, for performance teaching Biometrics

PRESENTATIONS

Repetitive Elements and their Role in Genome Size Flux, Poster at Maize Genetics Conf, 2014
Evolution of CentC in the Maize Genome, Talk at PBGG Colloquium, 2013
Adaptive Genome Size in Maize and Its Wild Relatives, Talk at PBGG Seminar Series, 2013
Genome Size in Maize, Invited Talk at DuPont Pioneer, Woodland CA and Johnston, IA
Searching for Patterns of Repetitive Sequence Evolution, Poster at Maize Genetics Conf, 2013
Evolution of the Maize Centromeric Repeat, CentC Poster at Plant Biology Colloquium, 2012
Rapid Evolution of the Maize Centromere Repeat, Poster at Maize Genetics Conf, 2012
Sequence Repeat Evolution in *Zea*, Talk at Plant Biology Colloquium, 2011

TEACHING EXPERIENCE

Guest Lecturer on Genetic Mapping, Genetics BIS101, UCD 2014
- 2 hour lecture on linkage and test crosses and paper discussion to upper division undergratues

Guest Lecturer on Population Genetics, Plant Sciences PLS152, UCD 2013, 2014
- 2 hour lecture on fundamentals of population genetics to upper division undergraduates

Teaching Assistant, Genetics BIS101, UCD, 2013
- Spring and Fall Quarters, led discussion sections and held office hours
- Assisted in exam writing, paper discussion, and grading

Mentor for UC Davis Undergraduate Intern, 2013
- Trained an undergraduate in advanced biological topics and bioinformatics
- Applied and received small grant funding to hire the intern for the summer
- Led a journal discussion group for several lab interns

Mentor for Mexican Exchange Students in Bioinformatics Research, 2012
- Mentored several summer interns in basic bioinformatics
- Guided interns in research contributing to a publication in *Chromosoma*

Co-Lecturer, Research in Genomics Lab, BIMM 173, UCSD, 2010
- Designed the bioinformatics section of a new lab course for upper division undergraduates
- Wrote and gave 5 weeks of lecture, guided students through in class practicals
- Wrote the computational section of the final and graded exams

Course Implementation Consultant, Washington University in St. Louis, 2010
- On-site training at Washington University, St. Louis
- Participated in course evaluation and improvement
- Research findings from coursework are being submitted for publication

Teaching Assistant, Introductory Ecology and Biostatistics, UCSD, 2009
- Led discussion sections, held office hours, and graded exams

COSMOS Cluster Assistant in Molecular Biology, UCSD, 2009
- Led classroom instruction for high school students in molecular and computational biology

Professional High School Tutor, Biology and Math, Breyer's Branches Tutoring, 2008-2010
- Assisted 9-12th grade students in one-on-one tutoring

OTHER RELEVANT SKILLS AND EXPERIENCE

Working proficiency with Unix, latex, perl, bash, and R
Experience with sequence analysis tools (alignment and mapping software)
Native in English and Polish, with a basic proficiency in Spanish
Organized DuPont Pioneer-UC Davis Plant Molecular Breeding Symposium, 2012 and 2013
Scientific Peer Review: BMC Genomics January 2014

REFERENCES

Dr. Jeffrey Ross-Ibarra, Associate Professor at University of California at Davis
Phone: 530-752-1152
Email: rossibarra@ucdavis.edu

Dr. R. Kelly Dawe, Distinguished Research Professor at University of Georgia at Athens
Phone: 706-208-8051
Email: kdawe@uga.edu

Dr. Matthew Hufford, Assistant Professor at Iowa State University
Phone: 515-294-8511
Email: mhufford@iastate.edu