

Biographical Sketch: Josef C. Uyeda

Postdoctoral Fellow, Department of Biological Sciences
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a. Professional Preparation

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| Willamette University | Biology | B. A., 2006 |
| Oregon State University | Zoology | Ph. D., 2012 |
| University of Idaho | Postdoctoral Fellow | 2012-Present |

b. Appointments

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| 2012-Present | Postdoctoral Fellow, Biological Sciences, University of Idaho, Moscow, ID |
| 2011-2012 | Graduate Instructor, Biology, Oregon State University, Corvallis, OR |
| 2006-2011 | Graduate Teaching Assistant, Zoology, Oregon State University, Corvallis, OR |
| 2009 | Nordic Research Fellow, CEES, University of Oslo, Oslo, Norway |
| 2007-2010 | NSF Pre-doctoral Fellow, Zoology, Oregon State University, Corvallis, OR. |

c. Publications

(i) Five most closely related to proposal project

Uyeda, JC, and LJ Harmon. 2014. A novel Bayesian method for inferring and interpreting the dynamics of adaptive landscapes from phylogenetic comparative data. *Systematic Biology*, doi:10.1093/sysbio/syu057.

Uyeda, JC, Caetano, DS, and MW Pennell. Comparative analysis of principal components can be misleading. Accepted in *Systematic Biology*, <http://dx.doi.org/10.1101/007369>.

Uyeda, JC, Hansen TF, Arnold SJ and J Pienaar. 2011. The million-year wait for macroevolutionary bursts. *Proceedings of the National Academy of Sciences*, 108(38):15908-15913.

Pennell, MW, Eastman, JM, Slater, GJ, Brown, JW, Uyeda, JC, Fitzjohn, RG, Alfaro, ME and LJ Harmon. 2014. geiger v2.0: an expanded suite of methods for fitting macroevolutionary models to phylogenetic trees. *Bioinformatics*, doi:10.1093/bioinformatics/btu181.

Pennell, MW, Harmon, LJ and JC Uyeda. 2013. Is there room for punctuated equilibrium in macroevolution? *Trends in Ecology and Evolution*, 29(1):23-32.

(ii) Other significant publications

Uyeda, JC, Arnold, SJ, Hohenlohe, PA, and LS Mead. 2009. Drift promotes speciation by sexual selection. *Evolution* 63(3):583-594.

Jones, AG, Bürger, R, Arnold, SJ, Hohenlohe, PA and JC Uyeda. 2012. The effects of stochastic and episodic movement of the optimum on the evolution of the G-matrix and the response of the mean to selection. *Journal of Evolutionary Biology*, 25(11):2210-2231.

Pennell, MW, Harmon, LJ and JC Uyeda. 2014. Speciation is unlikely to drive divergence rates. *Trends in Ecology and Evolution*, 29(2):72-3.

Uyeda, JC, Drewes, RC, and BM Zimkus. 2007. The California Academy of Sciences Gulf of Guinea Expeditions (2001, 2006) VI. A new species of *Phrynobatrachus* from the Gulf of Guinea islands and a reanalysis of *Phrynobatrachus dispar* and *P. feae*

(Anura: Phrynobatrachidae). Proceedings of the California Academy of Sciences, 58(18):367-385.

Uyeda, JC, and SR Kephart. 2007. Detecting species boundaries and hybridization in *Camassia quamash* and *C. leichtlinii* (Agavaceae) using allozymes. Systematic Botany, 31(4):642-655.

d. Synergistic activities

- 2011-2014 Invited lecturer and course TA for the Evolutionary Quantitative Genetics workshop led by Steve Arnold and Joe Felsenstein (NESCENT in 2011, 2013, NIMBIOS in 2014)
- 2014 Creator and maintainer of the R package *bayou* currently available on CRAN for fitting adaptive models of trait evolution on phylogenies (<http://cran.r-project.org/web/packages/bayou/index.html>)
- 2006, 2008 Participated in two multidisciplinary expeditions to the Gulf of Guinea islands in Africa as a field associate with the California Academy of Sciences. During both expeditions, I helped disseminate our results to local community members, business owners and government officials.
- 2007-present I co-founded a cross-departmental graduate student outreach organization at Oregon State University called BIO-GradS (Broader Impacts and Outreach by GRADuate Students). As co-PI, I have obtained 3 outreach grants totaling \$2600 (Society for the Study of Evolution and Precollege Programs, OSU) and organized two workshops for rural and underserved high schools in Oregon. I have extensively participated in outreach (>15 separate events, >700 students and >40 teachers).
- 2012-present I am collaborating on the Arbor project as part of the Assembling, Visualizing and Analyzing the Tree of Life (AVAToL) program. I work with a team of software developers and biologists to provide a platform for analyzing and visualizing phylogenetic comparative data. My duties include incorporating and developing novel comparative methods for implementation in the Arbor software and collaborating with researchers analyzing phylogenetic comparative data across the AVAToL project. (<http://www.arborworkflows.com/>)

e. Collaborators & other affiliations

(i) Recent Collaborators

SJ Arnold (OSU), CE Blank (U. of Montana), R Bürger (U. of Vienna), DS Caetano (UI), JM Eastman (UI), SL Eddy (U. of Washington), TF Hansen (U. of Oslo), LJ Harmon (UI), PA Hohenlohe (UI), LD Houck (OSU), AG Jones (Texas A&M), SR Kephart (Willamette U.), KT Kiemnec-Tyburczy (Humboldt State U.), R Maia (UI), CR McClain (NESCENT), ET Miller (UI), LR Moore (U. of S. Maine), MW Pennell (UI), ME Pfreder (Notre Dame), J Pienaar (U. of Alabama), T Reitan (U. of Oslo), T Schweder (U. of Oslo), MF Westphal (BLM, CA)

(ii) Graduate and postdoctoral advisors

Stevan J Arnold (PhD Advisor, Oregon State U.)
Luke J Harmon (Postdoctoral advisor, U. of Idaho)

(iii) Thesis/Postgraduate Scholar Sponsor

N/A