

# Kelly Sovacool

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<b>EDUCATION</b>	<i>Bachelor of Science, Biology</i> University of Kentucky, Lexington, KY Minor: Computer Science <ul style="list-style-type: none"><li>• 4-year Full Tuition Presidential Scholarship</li><li>• Lewis Honors College</li><li>• Honors Biology Scholar</li></ul>	2014-2018
<b>RESEARCH</b>	<i>Undergraduate Lab Assistant</i> Moseley Bioinformatics Lab, Dept. of Molec. & Cell. Biochemistry, University of Kentucky <ul style="list-style-type: none"><li>• Developing a computational tool for identifying sets of orthologous and paralogous gene products across any set of whole genomes to facilitate collinearity analysis and detection of gene duplication events.</li></ul> <i>BIO395 Independent Research Student</i> Weisrock Lab, Dept. of Biology, University of Kentucky <ul style="list-style-type: none"><li>• Population structure analysis of the <i>Ambystoma</i> tiger salamander complex.</li><li>• Bayesian species delimitation of the <i>Desmognathus</i> dusky salamander complex.</li><li>• Writing Bash and Python scripts for managing sequence data.</li><li>• Developing a SNP calling pipeline for amplicon sequence data</li></ul> <i>Undergraduate Lab Assistant</i> Jaromczyk Lab, Dept. of Computer Science, University of Kentucky <ul style="list-style-type: none"><li>• Maintained the <i>E. festucae</i> genome project database.</li><li>• Applied methods of processing RNA-seq data to <i>C. quinoa</i> and the Coffee ringspot virus.</li></ul>	2015-present  2016-present  2015-2016
<b>AWARDS</b>	<i>Oswald Research &amp; Creativity Award</i> , University of Kentucky <ul style="list-style-type: none"><li>• Awarded a \$200 prize for second place in the Biological Sciences category.</li><li>• Manuscript title: Developing a Global Homology and Collinearity Analysis Framework for Identifying Gene Duplication Events. Supervised by Prof. Hunter NB Moseley.</li></ul> <i>Summer Research Grant</i> , University of Kentucky <ul style="list-style-type: none"><li>• Awarded a \$2,000 grant by the UK Office of Undergraduate Research to work full time on a research project during the summer.</li><li>• Project title: Developing a Global Homology and Collinearity Analysis Framework for Identifying Gene Duplication Events. Supervised by Prof. Hunter NB Moseley.</li></ul>	2017  2017
<b>POSTERS &amp; ORALS</b>	<i>Developing a Global Homology Analysis Framework for Comparative Genomics</i> Supervised by Prof. Hunter NB Moseley. <ul style="list-style-type: none"><li>• Poster presented at the Showcase of Undergraduate Scholars, University of Kentucky. April 25, 2018.</li><li>• Oral presentation given at the Systems Biology &amp; Omics Integration Seminar Series, University of Kentucky. April 16, 2018.</li><li>• Poster presented at the National Conference on Undergraduate Research, University of Central Oklahoma. April 4-7, 2018.</li></ul>	

*Processing RNA-seq Reads of Plants Infected with the Coffee Ringspot Virus*

Supervised by Profs. Jerzy W Jaromczyk and Michael M Goodin.

- Poster presented at the Showcase of Undergraduate Scholars, University of Kentucky. April 27, 2016.
- Poster presented at the UT-KBRIN Bioinformatics Summit, Cadiz, KY. April 8-10, 2016.

*The Effect of Meditation on Performance*

Supervised by Prof. Bruce O'Hara.

- Poster presented at the Showcase of Undergraduate Scholars, University of Kentucky. April 29, 2015

**OTHER WORK**

*Tutor*

2012-2017

- Tutored high school and college students in Biology, Calculus, Chemistry, Computer Science, and Bioinformatics.

*Sound Technician*

2009-present

- Setting up, maintaining, repairing, and operating audio equipment for bands, churches, and other non-profit organizations.
- Operating the front of house, monitor, and recording systems during sound checks, rehearsals, services, and concerts.
- Training new sound techs in the art and science of live sound.