

**Kimberly Olney**

Arizona State University  
 School of Life Sciences  
 P.O. Box 874501  
 Tempe, AZ 85281-4501

**EDUCATION**

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2016-Present Ph.D., Evolutionary Biology, Arizona State University

2008-2013 B.S., Biological Sciences, Arizona State University

**PUBLICATIONS**

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- 2017 **Olney KC**, Nyer D, Wilson Sayres MA, Haynes K. “Activation of tumor suppressor genes in breast cancer with a synthetic chromatin effector.” bioRxiv, September 7, 2017. doi:10.1101/186056.
- 2017 Wilson Sayres MA, [and 30 others], **Olney KC**, McWilliams M, Pauley MA. “Bioinformatics Core Competencies for Undergraduate Life Sciences Education.” bioRxiv, August 3, 2017. doi:10.1101/170993. (Accepted with minor revisions to *PLOS ONE*)
- 2017 **Olney KC**, Narang P, Taravella AM, Webster TH, Wilson Sayres MA. “EvSex16: Evolutionary Genomics of Sex.” *Journal of Heredity*, October 30, 2017. doi:10.1093/jhered/esx084
- 2016 Rupp S, Webster H, **Olney KC**, Hutchins E, Kusumi K, Wilson Sayres MA. “Evolution of dosage compensation in *Anolis carolinensis*, a reptile with XX/XY chromosomal sex determination”. *Genome Biology and Evolution* 2016; doi: 10.1093/gbe/evw26.

**FUNDING**

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|------|---|----------|
| 2018 | Achievement Rewards for College Scientists (ARCS), Phoenix chapter                                    | (\$8.5K) |
| 2017 | Harry Lowell Swift Advancing Health Scholarship, Arizona State University                             | (\$2K)   |
| 2017 | Individual Travel Grant, Graduate and Professional Student Association, Arizona State University      | (\$913)  |
| 2017 | Graduate College Travel Award, Graduate College Student Support Initiatives, Arizona State University | (\$500)  |
| 2017 | Travel Award, School of Life Sciences Graduate Programs, Arizona                                      | (\$400)  |

State University

**ABSTRACTS AND MEETING PRESENTATIONS**

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- 2017 Nyer DB, Henning A, **Olney KC**, Wilson Sayres M, and Haynes K. A synthetic, chromatin-targeted effector activates tumor suppressor genes in breast cancer cells. Engineering Biology Research Consortium Retreat. Atlanta, GA.
- 2017 **Olney KC**, Brotman S, Valverde-Vesling V, Andrews J, Wilson Sayres MA. Assessment of quality filters and sex-specific reference mapping in human RNA-seq tissues. Society for Molecular Biology & Evolution, Austin, TX.
- 2017 **Olney KC**, Nyer B, Wilson Sayres MA, Haynes K. Synthetic chromatin protein to regulate gene expression in breast cancer cells. ASU Molecular, Cellular and Tissue Bioengineering Symposium. Tempe, AZ.
- 2016 Valverde-Vesling V, **Olney KC**, Wilson Sayres MA. Read quality and filtering in RNA-seq placenta. Evolutionary Sex conference. Tempe, AZ.
- 2016 **Olney KC** Skotte L, Nielsen R, Wilson Sayres MA. Inferring biased allele expression across the genome. Evolutionary Sex conference. Tempe, AZ.
- 2016 **Olney KC**, Skotte L, Nielsen R, Wilson Sayres MA. Inferring biased allele expression across the genome. International Society for Evolution, Medicine, & Public Health. Durham, NC.
- 2016 **Olney KC**, Skotte L, Nielsen R, Wilson Sayres MA. Inferring biased allele expression across the genome. **Contributed talk**. Southern California Evolutionary Genetics and Genomics meeting. Riverside, CA.
- 2015 **Olney KC**, Skotte L, Nielsen R, Wilson Sayres MA. Inferring biased allele expression across the genome. American Society of Human Genetics conference. Baltimore, MD.
- 2015 Rupp S, **Olney KC** and Wilson Sayres MA. Characterizing sex-biased gene expression in the green anole. International Society for Evolution, Medicine, & Public Health. Tempe, AZ.

**SOFTWARE AND PROTOCOL**

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- 2017 *ASEofBases*, Allele specific expression pipeline:  
<https://github.com/WilsonSayresLab/ASEofBases>

**TEACHING EXPERIENCE**

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**Teaching Assistant at Arizona State University**

- 2018            Computing for Research
- 2017            Introduction to Computational Molecular Biology
- 2016            Organic Evolution

**MENTORING (3 current; 5 total)**

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**Undergraduate Honors Thesis Mentor**

- 2017-Present   Avery Underwood
- 2016-2017      Sarah Brotman

**Undergraduate Research Mentor**

- 2017-Present   Leilani Pfeiffer, Jocelyn Andrews
- 2016-2017      Jocelyn Andrews, Valeria Valverde-Vesling

**SERVICE**

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- 2018-Present   Grant reviewer for Graduate & Professional Student Association, ASU
- 2016-Present   Organizer for School of Life Sciences Homecoming Booth, ASU
- 2016-Present   Guest speaker for CompuGirls, ASU
- 2015-Present   Organizer for Night of the Open Door, ASU
- 2015-Present   Science Communicator, answering K-12 submission questions, Ask A Biologist
- 2015-Present   Science Panelist at Phoenix ComiCon, Phoenix AZ
- 2015-Present   Science Fair Judge at Self Development Academy 5-7<sup>th</sup> grade, Mesa, AZ
- 2017            Co-organizer for Evolutionary Biology Research Symposium for graduate students, ASU
- 2017            *Ask A Biologist* publication, **Olney KC**. “Money Matters: How Wealth Affects Offspring Success”. ASU - *Ask A Biologist* 2017.
- 2016            Organizer for Go Bananas for DNA: National DNA Day activity, ASU science library
- 2016            Mentor for Girls in STEM at Arizona Science Center, Phoenix, AZ

2016 Science Judge for Young Scientist Panel at Phoenix ComiCon, Phoenix, AZ

**PROFESSIONAL SOCIETY MEMBERSHIPS**

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2017-Present Sigma Xi, The Scientific Research Society

2017-Present Society for Molecular Biology and Evolution (SMBE)

2016-Present American Society of Human Genetics (ASHG)

2015-Present International Society for Evolutionary Medicine and Public Health (ISEMPH)