

Jacob Steenwyk

Graduate Student, Evolutionary genomics
Dept. Biological Sciences, Vanderbilt University
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Education

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| Present | Graduate Student Biological Sciences Advisor: Antonis Rokas Current GPA: 3.95 | Vanderbilt University |
| 2016 | M.S. Biochemistry and Molecular Biology Advisor: John G. Gibbons GPA: 3.98 | Clark University |
| 2015 | B.A. Biochemistry and Molecular Biology Advisor: Denis Larochelle Cumulative GPA: 3.84 & Science GPA: 3.84 | Clark University |

Awards

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| 2017 | Graduate Student Travel Grant, Vanderbilt University |
| 2016 | Graduate Student Council Travel Awards, Clark University |
| 2015 | Summa Cum Laude, Clark University |
| 2014 | Who's Who Among Students in American Universities & Colleges, Recognition of Merit and Accomplishment |
| 2011 | Jonas Clark Scholarship, Clark University |

Publications

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| Preprint: | Steenwyk J. , St. Denis J., Dresch J., Larochelle D., Drewell R. (2017) Whole genome bisulfite sequencing reveals a sparse, but robust pattern of DNA methylation in the <i>Dictyostelium discoideum</i> genome. bioRxiv. doi: 10.1101/166033 |
| (2) | Steenwyk J. , Rokas A. (2017). Extensive Copy Number Variation in Fermentation-Related Genes among <i>Saccharomyces cerevisiae</i> Wine Strains. G3: Genes Genomes Genetics. doi: 10.1534/g3.117.040105 |
| (1) | Steenwyk J.L. , Soghigian J.S., Perfect J.R. and Gibbons J.G. (2016). Copy number variation contributes to cryptic genetic variation in outbreak lineages of <i>Cryptococcus gattii</i> from the North American Pacific Northwest. BMC Genomics. doi: 10.1186/s12864-016-3044-0 |

Contributed Talks

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| 2017 | Mycological Society of America, Univ. of Georgia, Athens, GA Extensive Copy Number Variation in Fermentation-Related Genes Among <i>Saccharomyces cerevisiae</i> Wine Strains |
| 2016 | Mycological Society of America, Univ. of California Berkeley, Berkeley, CA Population structure and copy number variation in the fungal pathogen <i>Cryptococcus gattii</i> |

- 2016** Graduate Student Multidisciplinary Conference, Clark University, Worcester, MA
Population structure and copy number variation in the fungal pathogen *Cryptococcus gattii*
- 2015** TedXClarkUniversity, Clark University, Worcester, MA
Instinct and Intelligence

Poster Presentations

- 2015** Bumpus Symposium, Clark University, Worcester, MA
Population structure and copy number variation in the fungal pathogen *Cryptococcus gattii*
- 2015** Traina Scholars Presentation, Clark University, Worcester, MA
Mapping the Auto-Immune Triggering Epitope of ELAVL4
- 2015** Summer Research Presentation, Clark University, Worcester, MA
Mapping the Auto-Immune Triggering Epitope of ELAVL4

Research Experience

- Current** Antonis Rokas Lab at Vanderbilt University, Nashville, TN.
- 2015-16** John Gibbons Lab at Clark University, Worcester, MA. Investigation of copy number variation in the human pathogen, *Cryptococcus gattii*.
- 2015-16** Robert Drewell Lab at Clark University, Worcester, MA. Investigation of genome-wide methylation patterns in *Dictyostelium discoideum*.
- 2014** Ite A. Laird-Offringa Lab at University of Southern California, Los Angeles, CA. Bridging the Gaps Summer Scholar. Project aim was to map the autoimmune triggering epitope of *ELAVL4* in small cell lung cancer.
- 2013** John Heidelberg and Eric Webb Labs at University of Southern California, Los Angeles, CA. Global Environmental Microbiology Summer Scholar. Investigation of fresh and marine water microbial diversity.

Teaching Assistant Experience and Service

- 2017-18** Teaching Assistant, Introductory Biology Lab, Vanderbilt University, Nashville, TN
- 2017** Judge, Middle Tennessee Science and Engineering Fair, Belmont University, Nashville, TN
- 2017** Vanderbilt Student Volunteers for Science, Volunteer Science Teacher, West End Middle School, Nashville, TN
- 2017** Manuscript Reviewer, Young Scientist Journal
- 2016** Introduction to Biostatistics, Teaching Assistant, Clark University, Worcester, MA.
- 2015-16** Peer Review Committee Member, Scholarly Undergraduate Research Journal, Clark University, Worcester, MA.
- 2015** Science Education Outreach Blogger, C-DEBI Sci-Curious Blog.
- 2014-15** Cell Biology, Peer Learning Assistant, Clark University, Worcester, MA.

- 2014-15** Undergraduate Subcommittee for Department of Chemistry, Biochemistry and Molecular Biology Faculty Search Committee, Clark University, Worcester, MA.
- 2014** Peer Review Committee Member, Scholarly Undergraduate Research Journal, Clark University, Worcester, MA.
- 2014** Science Education Outreach Blogger, C-DEBI Sci-Curious Blog.