# **Jacob Steenwyk**

Graduate Student, Evolutionary genomics Dept. Biological Sciences, Vanderbilt University jacob.steenwyk@vanderbilt.edu

_				
$-\alpha$	uc	21	$\sim$	n
Lu	u	aı	u	

Present	Graduate Student Biological Sciences	Vanderbilt University
	Advisor: Antonis Rokas	
	Current GPA: 3.95	
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**

_		
2017	Graduate student travel grant, Vanderbilt University	
2016	Graduate student council travel awards, Clark University	
2015	Summa cum laude, Clark University	
2014	Summer research scholar, Bridging the gaps, University of Southern	
	California Keck School of Medicine	
2013	Global environmental microbiology scholar, Center for dark energy	
	biosphere investigations, University of Southern California	
2011	Jonas Clark Scholarship, Clark University	

#### **Publications**

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 Dictyostelium discoideum genome. bioRxiv. doi:
	10.1101/166033

- (2) **Steenwyk J.**, Rokas A. (2017). Extensive Copy Number Variation in Fermentation-Related Genes among *Saccharomyces cerevisiae* 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 *Cryptococcus gattii* from the North American Pacific Northwest. BMC Genomics. doi: 10.1186/s12864-016-3044-0

#### **Contributed Talks**

2017	Mycological Society of America, Univ. of Georgia, Athens, GA
2017	Mycological Society of Affierica, Offiv. of Georgia, Affieris, GA
	Extensive Copy Number Variation in Fermentation-Related Genes Among
	Saccharomyces cerevisiae Wine Strains

2016	Mycological Society of America, Univ. of California Berkeley, Berkeley, CA Population structure and copy number variation in the fungal pathogen
	Cryptococcus gattii
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
2015	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**

### **Teaching Experience** (organized by end date)

2017-Pres.	Teaching Assistant, Introductory Biology Lab, Vanderbilt University, Nashville, TN
2016	Introduction to Biostatistics, Teaching Assistant, Clark University,
2014-2015	Worcester, MA Cell Biology, Teaching Assistant, Clark University, Worcester, MA

## **Service** (organized by end date)

**2017-Pres.** Secretary, Graduate Student Association, Department of Biological Sciences, Vanderbilt University, Nashville, TN

**2017-Pres.** Communications chair, Inequalities in Biological Sciences Association, Vanderbilt University, Nashville, TN 2017-Pres. Member, Graduate Diversity and Inclusion Committee, Vanderbilt University, Nashville, TN 2017-Pres. Scientific liaison, Little Harpeth Brewing, Nashville, TN 2017 Educational outreach booth design and execution, MEGAMicrobe, 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 Scientists Journal 2014-16 Peer Review Committee Member, Scholarly Undergraduate Research Journal, Clark University, Worcester, MA 2014-15 Undergraduate Subcommittee for Department of Chemistry, Biochemistry and Molecular Biology Faculty Search Committee, Clark University, Worcester, MA 2014-15 Science Education Outreach Blogger, C-DEBI Sci-Curious Blog