

**J. JEFFREY MORRIS**  
Curriculum Vitae

University of Alabama at Birmingham  
Department of Biology  
1300 University Boulevard, CH253  
Birmingham, AL 35294  
205-934-9498  
evolve@uab.edu

**EDUCATION**

2006-2011            Ph.D., University of Tennessee, Knoxville (Microbiology)  
2004-2006            B.S., Kennesaw State University (Biology), *summa cum laude*  
1992-1997            University of Alabama, Huntsville (Biology/Philosophy)

**PROFESSIONAL EXPERIENCE**

**2015-Present**            **Assistant Professor**  
Department of Biology  
University of Alabama in Birmingham

**2011-2014**            **Postdoctoral Fellow**  
Advisor: Dr. Richard E. Lenski  
Department of Microbiology and Molecular Genetics  
Michigan State University

**2006-2011**            **Graduate Research/Teaching Assistant**  
Advisor: Dr. Erik R. Zinser  
Department of Microbiology  
University of Tennessee, Knoxville

**2005-2006**            **Independent Undergraduate Research**  
Research Advisor: Dr. Joseph M. Dirnberger  
Department of Biology and Physics  
Kennesaw State University

**1993-1996**            **Independent Undergraduate Research**  
Research Advisor: Dr. Ronald B. Young  
Department of Biological Sciences  
University of Alabama, Huntsville

**PEER-REVIEWED PUBLICATIONS**

**1215 total citations, h-index = 13** (as of July 23 2019, according to Google Scholar)

**Publications completed entirely at UAB:**

1. **MORRIS, JJ.** 2018. What is the hologenome concept of evolution? *F1000 Research* 1664.
2. Entwistle, EM, KL Romanowicz, WA Argiroff, ZB Freedman, **JJ MORRIS**, and DR Zak. 2018. Anthropogenic N deposition alters the composition of expressed class II fungal peroxidases. *Applied and Environmental Microbiology* 84:e02816-17
3. Adkins, SJ, RK Rock, and **JJ MORRIS**. 2018. Interdisciplinary STEM education reform: Dishing out art in a microbiology laboratory. *FEMS Microbiology Letters* 365:fnx245
4. Ma, L, **JJ MORRIS**, ZI Johnson, and ER Zinser. 2018. Degradation of hydrogen peroxide at the ocean's surface: The influence of the microbial community on the realized thermal niche of *Prochlorococcus*. *ISME Journal* 12:473-484.
5. Hennon, GMM, **JJ MORRIS**, ST Haley, ER Zinser, AR Durrant\*, E Entwistle\*, T Dokland, and ST Dyhrman. 2018. The impact of elevated CO<sub>2</sub> on *Prochlorococcus* and microbial interactions with the 'helper' bacterium *Alteromonas*. *ISME Journal* 12:520-531.
6. **MORRIS, JJ**, and Eric Schniter. 2017. Black Queen markets: Commensalism, dependency, and the evolution of cooperative specialization in human society. *Journal of Bioeconomics* 20:69-105
7. Ashworth, MP, and **JJ MORRIS**. 2016. Axenic microalgal cultures overlook the complexity of the phycosphere marketplace. *Perspectives in Phycology* 3(2): 107-111.
8. Estrela, S, B Kerr, and **JJ MORRIS**. 2016. Transitions in individuality through symbiosis. *Current Opinion in Microbiology* 31: 191-198

**Publications begun elsewhere but completed at UAB:**

9. **MORRIS, JJ**, ZI Johnson, SW Wilhelm, and ER Zinser. 2016. Diel regulation of hydrogen peroxide defenses by open ocean microbial communities. *Journal of Plankton Research* 38: 1103-1114
10. Lenski, RE, MJ Wisner, N Ribeck, ZD Blount, JR Nahum, **JJ MORRIS**, L Zaman, CB Turner, BD Wade, R Maddamsetti, AR Burmeister, EJ Baird, J Bundy, NA Grant, KJ Card, M Rowles, K Weatherspoon, SE Papoulis, R Sullivan, C Clark, JS Mulka, and N Hajela. 2015. Sustained fitness gains and variability in fitness trajectories in the long-term evolution experiment with *Escherichia coli*. *Proceedings of the Royal Society B* 282:1821
11. Estrela, S, **JJ MORRIS**, and B Kerr. 2015. Private benefits and metabolic conflicts shape the emergence of microbial interdependencies. *Environmental Microbiology* 18:1415-1427
12. Dutkiewicz, S, **JJ MORRIS**, MJ Follows, J Scott, O Levitan, ST Dyhrman, and I Berman-Frank. 2015. Impact of ocean acidification on the structure of future phytoplankton communities. *Nature Climate Change* 5:1002-1006
  - Media coverage: *Christian Science Monitor*, *Rolling Stone*
13. **MORRIS, JJ**. 2015. Black Queen Evolution: The role of leakiness in structuring microbial communities. *Trends In Genetics* 31: 475-482.
14. Mackey, KRM, **JJ MORRIS**, FMM Morel, and SA Kranz. 2015. Response of photosynthesis to ocean acidification. *Oceanography* 28: 22-39.

**Publications completed prior to beginning at UAB:**

15. **MORRIS, JJ**, SE Papoulis, and RE Lenski. 2014. Coexistence of evolving bacteria stabilized by a shared Black Queen function. *Evolution* 68: 2960-2971.
16. **MORRIS, JJ**, and LR Hmelo. 2014. Organizing principles for marine microbial consortia. PF Kemp [ed.]. *Eco-DAS IX Symposium Proceedings*. Waco, TX: Association for the Science of Limnology and Oceanography.
17. Brum, JR, **JJ MORRIS**, M Décima, and MR Stukel. 2014. Mortality in the ocean: causes and consequences. PF Kemp [ed.]. *Eco-DAS IX Symposium Proceedings*. Waco, TX: Association for the Science of Limnology and Oceanography.
18. **MORRIS, JJ**, and ER Zinser. 2013. Continuous hydrogen peroxide production by organic buffers in phytoplankton culture media. *Journal of Phycology* 49: 1223-1228
19. **MORRIS, JJ**, RE Lenski, and ER Zinser. 2012. The Black Queen Hypothesis: evolution of dependencies through adaptive gene loss. *mBio* 3: e0036-12.
  - Sustained impact: over 390 citations as of July 2019
  - Media coverage: *Microbe* magazine, *New Scientist*, io9.com, Huffington Post, and dozens of blogs
  - Featured on the front page at NSF.gov
  - Highlighted by *mBio* in a commentary piece (Sachs, JL, and AC Hollowell. 2012. The origins of cooperative bacterial communities. *mBio* 3: e00099-12.)
  - “Editor’s Pick” from *mBio* volume 3, issue 2.
  - Featured as a full-page article in the 14<sup>th</sup> edition of *Brock Biology of Microorganisms*
20. **MORRIS, JJ**, ZI Johnson, MJ Szul, M Keller, and ER Zinser. 2011. Dependence of the cyanobacterium *Prochlorococcus* on hydrogen peroxide scavenging microbes for growth at the ocean’s surface. *PLoS ONE* 6(2): e16805.
21. **MORRIS, JJ**, R Kirkegaard, MJ Szul, ZI Johnson, and ER Zinser. 2008. Robust growth of *Prochlorococcus* colonies and dilute liquid cultures: facilitation by “helper” heterotrophic bacteria. *Applied and Environmental Microbiology* 74(14): 4530-4534.

**CURRICULA**

**MORRIS JJ** and SJ Adkins. *The Art of Microbiology: A Laboratory Manual*. Published online via CURENet and Github, currently in use in at least 3 universities and colleges

**SOFTWARE**

**KEGGUR**: a perl application for assembling user-friendly, "good-enough" databases for analyzing particular functional genes in large short-read metagenomic datasets.  
<https://github.com/syntherzukul/KEGGUR>

**SCIENCE BLOGGING**

- "Are All Stresses Oxidative Stresses?", *Small Things Considered*, 15 July 2019  
<https://schaechter.asmblog.org/schaechter/2019/07/are-all-stresses-oxidative-stresses.html>
- "The art of microbiology", with Sarah Adkins and Rachel Rock, *OUPblog*, 8 April 2018  
<https://blog.oup.com/2018/04/art-of-microbiology/>
- "Predators, Parasites, and Piggyback Rides", *Small Things Considered*, 1 August 2016  
<https://schaechter.asmblog.org/schaechter/2016/08/parasites-predators-and-piggyback-rides.html>

"Sex and Evolution, Vibrio Style", *Small Things Considered*, 4 October 2015

<http://schaechter.asmblog.org/schaechter/2015/10/sex-and-evolution-vibrioem-style.html>

"The Invisible Hand of Evolution", *BEACON Center Blog*, 28 July 2014 [http://beacon-](http://beacon-center.org/blog/2014/07/28/beacon-researchers-at-work-the-invisible-hand-of-evolution/)

[center.org/blog/2014/07/28/beacon-researchers-at-work-the-invisible-hand-of-evolution/](http://beacon-center.org/blog/2014/07/28/beacon-researchers-at-work-the-invisible-hand-of-evolution/)

"The Evolution of Simplicity and the Black Queen Hypothesis", *BEACON Center Blog*, 21 May

2012 <http://beacon-center.org/blog/2012/05/21/beacon-researchers-at-work-the-evolution-of-simplicity-and-the-black-queen-hypothesis/>

"A Black Queen in a Blue Ocean", *Huffington Post*, 2 May 2012

[http://www.huffingtonpost.com/jeff-morris/black-queen-hypothesis\\_b\\_1471250.html](http://www.huffingtonpost.com/jeff-morris/black-queen-hypothesis_b_1471250.html)

### **OTHER PUBLICATIONS**

Adkins, Sarah and **JJ MORRIS**. 2018. STEAM: BioArt as a Canvas For Discovery. *SciArt*

*Magazine* 32 <https://www.sciartmagazine.com/steam-bioart-as-a-canvas-for-discovery.html>

**MORRIS, JJ**. 2014. Book Review: *Stress Biology of Cyanobacteria*. *Journal of Phycology* 50: 770.

**EXTRAMURAL FUNDING****Total funding: \$3,918,521****Grants awarded while at UAB or transferred to UAB (\$1,828,398 total to UAB)**

- 2019-2023      **NSF OCE-1851085**, \$1,200,014; \$516,439 to UAB  
 "Collaborative Research: Ecology and evolution of microbial interactions in a changing ocean"  
**JJ Morris**, Lead PI  
 Gwenn M.M. Hennon and Sonya T. Dyhrman, Co-PIs
- 2019-2022      **Simons Foundation Early Career Investigator in Marine Microbial Ecology and Evolution**, \$540,000  
 "Microbial social networking: co-evolution of bacteria and algae in a changing ocean"
- 2018-2023      **NSF RCN-UBE-1826988**, \$497,614  
 "The ROSE Network: Improving Research Inclusivity through a Grassroots Culture of Scientific Teaching"  
**JJ Morris**, Lead PI  
 Samiksha Raut, Jeffrey T Olimpo, and Trent Sutton Co-PIs
- 2013-2019      **NSF OCE-1540158 NSF Ocean Acidification**, \$1,433,467; \$274,345 to UAB  
 "Collaborative Research: Ocean Acidification: Impacts of evolution on the response of phytoplankton populations to rising CO<sub>2</sub>"  
**J. J. Morris**, Lead PI  
 Richard E. Lenski, Michael Follows, and Sonya Dyhrman, Co-PIs

**Grants awarded and completed prior to arriving at UAB:**

- 2013-2015      **NASA Astrobiology Institute Postdoctoral Fellowship**, ~\$120,000  
 "Black Queen Evolution of Nitrogen Fixation and its Impact on the Archaeal Biosphere"  
 Advisor Richard E. Lenski
- 2014-2015      **NSF BEACON Grant**, \$59,653  
 "Investigation of the Black Queen Hypothesis: Genomic, Physiological, and Theoretical Approaches"  
**J. J. Morris**, Lead PI  
 Richard E. Lenski, Benjamin Kerr, and Robert Newman, Co-PIs

- 2013-2014            **NSF BEACON Grant, \$66,773**  
 "Investigation of the Black Queen Hypothesis: Mathematical and Experimental Approaches"  
**J. J. Morris**, Lead PI  
 Richard E. Lenski, and Benjamin Kerr, Co-PIs
- 2009                    **Grant-in-aid**, Phycological Society of America, \$1,000

### INTRAMURAL FUNDING

- 2019                    **CAS Interdisciplinary Award, \$30,000**  
 "Antibiotic Resistant Bacteria in Heavy Metal Impacted Soils: A One-Two Punch For North Birmingham Residents?"  
**JJ Morris**, Lead PI  
 Veena Antony, Kevin Drace, and Brad Bennett, Co-PIs
- 2017                    **Quality Enhancement Program**, Center for Teaching and Learning;  
 \$3500  
 "Drawing with Bacteria: A new collaborative scientific inquiry model"

### RESEARCH CRUISES

#### Personal participation (Total 88 days at sea):

- 2009                    R/V *Cape Hatteras*, Sargasso Sea  
 2008                    R/V *New Horizon*, DCM08, Subtropical Eastern Pacific  
 2007                    CCGS *Limnos*, MELEE XII, Lake Erie  
 2007                    R/V *Hugh R. Sharp*, AB1, Chesapeake Bay  
 2007                    R/V *Kilo Moana*, WP2, Hawai'i to Australia transect  
 2006                    R/V *Kilo Moana*, KM0629, North Pacific Subtropical Gyre

#### Laboratory participation:

- 2019-2021            R/V *Atlantic Explorer*, BATS, Bermuda (4 Upcoming Cruises)  
 2018                    R/V *Atlantis*, TriCoLim, Tropical Atlantic  
 2016                    R/V *Pelican*, CLaSiC 2016, Gulf of Mexico  
 2015                    R/V *E.O. Wilson*, Gulf of Mexico

### SCHOLARSHIPS AND AWARDS

- 2014                    **ECO-DAS Reunion** travel award  
 2010                    **ECO-DAS IX** seminar participant, Honolulu, Hawai'i  
 2010                    **Harold C. Bold Award**, \$1000, Phycological Society of America  
 2010                    **Science Alliance Award**, \$2000, University of Tennessee  
 2010                    **Hoshaw Travel Award**, Phycological Society of America

2009	<b>Hoshaw Travel Award</b> , Phycological Society of America
2008	<b>David C. White Travel Award</b> , University of Tennessee
2008	<b><i>Prochlorococcus</i>fest</b> Travel Award
2007	<b>Best Student Presentation</b> , Southeastern Phycological Colloquy, Dauphin Island, Alabama
2006	<b>Phi Kappa Phi</b> honor society
1992	<b>Presidential Scholarship</b> , University of Alabama, Huntsville
1991	<b>National Merit Finalist</b>

## PROFESSIONAL DEVELOPMENT

2017	QEP Retreat, Birmingham, AL
2014	NESCent Experimental Evolution Workshop, Durham, NC
2014	<i>mothur</i> Workshop, Detroit MI
2013	Scientific Teaching/Active Learning seminar participant, MSU

## PROFESSIONAL SOCIETIES

2005-present	<b>Phycological Society of America</b>
	2007-2009 Student Representative, Education Committee
	2009-2011 Student Representative, Elections Committee
	2011-2014 Elections Committee
	2016-2022 Communications Committee, Chair
	2016-2022 Member, Executive Committee
2007-present	<b>American Society for Microbiology</b>
	2016- Faculty sponsor, UAB ASM Chapter
2007-present	<b>Association for the Sciences of Limnology and Oceanography</b>
2015-present	<b>Alabama Academy of Science</b>
2017-present	<b>Heterodox Academy</b>
2016-present	<b>Faculty of 1000</b>

## UNIVERSITY SERVICE

2016-Present	Steering Committee, UAB Center for Free Radical Biology
2016-Present	Faculty Mentor, UAB Chapter of the ASM Southeastern Branch
2018-Present	Biology Department Darwin Day committee
2017-Present	Biology Department Seminar committee
2017-2019	Alternate Senator, Faculty Senate
2017-2018	Faculty Senate Curriculum Committee
2018-2019	Faculty Senate Faculty Policies and Procedures Committee
2016-2017	UAB Culture of Safety Taskforce
2016	Ecology/Evolution Faculty Search Committee
2016-2017	UAB 2017 Darwin Day organizer

2015-2017            Host for seminar speakers  
Spring 2015: Andrew Lang, Lehigh University  
Spring 2016: Jennifer DeBruyn, University of Tennessee  
Spring 2017: Seth Bordenstein, Vanderbilt  
Fall 2017: Kelly Dorgan, Dauphin Island Sea Lab  
Spring 2018: Sara Brownell, Arizona State University  
Fall 2018: Terje Dokland and Rakesh Patel, UAB

2017-2019            Lead PI, ROSE Network

**JOURNAL REVIEWS (2008-present, 60 total)**

Verified Record at <https://publons.com/researcher/493987/j-jeffrey-morris/>

*Nature Microbiology* (1); *Nature Communications* (2); *Biological Reviews* (1); *The ISME Journal* (8); *PNAS* (2); *Ecology Letters* (2); *eLife* (1); *mSystems* (4); *Environmental Microbiology* (1); *Journal of Molecular Biology* (2); *Proceedings of the Royal Society B* (4); *Scientific Reports* (1); *Frontiers in Microbiology* (2); *Evolution* (1); *Applied and Environmental Microbiology* (6); *Limnology and Oceanography* (2); *Biology Letters* (1); *Oecologia* (1); *BMC Evolutionary Biology* (2); *ICES Journal of Marine Science* (1); *Environmental Microbiology Reports* (2); *PLoS ONE* (7); *FEMS Microbiology Letters* (1); *Antonie van Leeuwenhoek* (1); *Journal of Bioeconomics* (1); *Nature Ecology and Evolution* (3)

**PROPOSAL REVIEWS (2014-present)**

National Science Foundation *ad hoc* reviews: 3  
National Science Foundation Panel: June 2015, December 2016  
NSERC *ad hoc* reviews: 1  
DAAD *ad hoc* reviews: 1  
BBSRC *ad hoc* reviews: 1  
FWO *ad hoc*: 1



**SEMINAR AND POSTER PRESENTATIONS****INVITED PRESENTATIONS**

- 2020 *ProSynFest*, Cordoba, Spain (Upcoming)  
 2019 Duke University Marine Lab, Beaufort, NC (Upcoming)  
 2019 Panel Speaker, "The Science of Science Fiction", Alabama ComicCon, Birmingham, AL  
 2019 Birmingham Astronomical Society, Samford University, Birmingham, AL  
 2018 Plenary Speaker, OCB Summer Meeting, Woods Hole, MA  
 2018 Agar Art Panel, ASM Microbe, Atlanta, GA  
 2018 University of Tennessee Knoxville Microbiology Seminar, Knoxville, TN  
 2018 BEACON Congress, East Lansing, MI  
 2017 League of Women Voters Climate Change Series, Mobile, AL  
 2017 Phycological Society of America Annual Meeting, Plenary Speaker, Monterey, CA  
 2017 University of Mississippi Biology Seminar, Oxford, MS  
 2016 Center for Free Radical Biology and Medicine, UAB, Birmingham, AL  
 2016 BEACON Congress, East Lansing, MI  
 2015 Seminar Speaker, UAB Microbiology Department, Birmingham, AL  
 2015 University of Edinburgh, Edinburgh, UK  
 2015 Royal Society Kavli Center, Milton Keynes, UK  
 2015 Kennesaw State University Biology Seminar Series, Kennesaw, GA  
 2015 Dauphin Island Sea Lab, Mobile, AL  
 2014 USC Department of Oceanography Seminar, Los Angeles, CA  
 2013 MBI Workshop 2: Rapid Evolution and Sustainability, Columbus, OH

**CONTRIBUTED ORAL PRESENTATIONS**

- 2019 Society for the Advancement of Biology Education Research (SABER), Minneapolis, MN  
 2016 Southeastern Phycological Colloquy, Valdosta, GA  
 2016 ASLO Aquatic Sciences Meeting, Santa Fe, NM  
 2015 Phycological Society of America Annual Meeting, Philadelphia, PA  
 2014 Joint Aquatic Sciences Meeting, Portland, OR  
 2013 Molecular Genetics of Bacteria and Phages, Madison, WI  
 2013 Society for the Study of Evolution Annual Meeting, Snowbird, UT  
 2012 Phycological Society of America Annual Meeting, Charleston, SC  
 2011 Phycological Society of America Annual Meeting, Seattle, WA  
 2011 ASM General Meeting, New Orleans, LA  
 2010 Phycological Society of America Annual Meeting, East Lansing, MI  
 2008 Phycological Society of America Annual Meeting, New Orleans, LA  
 2007 Southeastern Phycological Colloquy, Dauphin Island, AL

**POSTERS**

2015 Ocean Acidification PI Meeting, Woods Hole, MA  
 2014 EMBO Experimental Evolution, Heidelberg, Germany  
 2014 Gordon Conference (Ocean Global Change Biology), Waterville Valley, NH  
 2012 BEACON Congress, East Lansing, MI  
 2012 ASM General Meeting, San Francisco, CA  
 2011 BEACON Congress, East Lansing, MI  
 2011 Gordon Conference (Microbial Population Biology), Andover, NH  
 2009 Phycological Society of American Annual Meeting, Honolulu, HI  
 2008 ASM General Meeting, Boston, MA  
 2008 *Prochlorococcus*fest, Cambridge, MA  
 2007 Phycological Society of America Annual Meeting, Providence, RI

**LABORATORY PUBLIC TEACHING OUTREACH**

2019 Girls, Inc (a United States 501 nonprofit organization) (4 visits)  
 2019 John Herbert Phillips Academy IB World Class School of Excellence (2 visits)  
 2019 Jefferson State Community College (3 visits)  
 2018 The Lovelady Center, Science Mentoring Program (2 visits)  
 2017-2018 CORD Hot Science Summer Program (4 visits/week)  
 2017 A. H. Parker High School (3 visits)  
 2017 Islamic Academy of Alabama High School (3 visits)  
 2017-2018 UAB Child Development Center (3 visits)  
 2016 McWane Science Museum, Teens for Tech Night (1 visit)  
 2015 "Mentor for a day" for Chicago high school student at AbSciCon meeting  
 2013-2014 Volunteer judge at Ingham County State Fair science competition

**TEACHING/MENTORING EXPERIENCE****\* Indicates new course prep****Assistant Professor (University of Alabama at Birmingham)**

Fall 2019	BY407/607 Microbial Ecology* Part of a multi-university CURE (Course-based Undergraduate Research Experience) in collaboration with Samford University, Birmingham Southern College, and the UAB School of Medicine
Summer 2019	Guest Lecturer, BY101
Summer 2019	BY271/271L Biology of Microorganisms and Laboratory
Spring 2019	BY429/491/629 Introduction to Evolution
Spring/Fall 2018	Guest Lecturer, BY101
Fall 2018	BY405/605 Microbial Physiology*
Summer 2018	BY271/271L Biology of Microorganisms and Laboratory
Fall 2017	BY271/271L Biology of Microorganisms and Laboratory
Summer 2017	Directed readings in microbial sociobiology
Summer 2017	BY271/271L Biology of Microorganisms and Laboratory
Spring 2017	BY271/271L Biology of Microorganisms and Laboratory* Designed as a CURE built around agar art. The course design and materials have been deposited online and have been adopted by at least 3 other instructors at different colleges/universities.
Fall 2016	BY429/491/629 Introduction to Evolution
Summer 2016	Directed readings in experimental design and statistics
Spring 2016	BY271/271L Biology of Microorganisms and Laboratory
Spring 2015	BY271 Biology of Microorganisms*

**Graduate Committee Service**

2017-present	Ben Caffee, University of Tennessee
2016-present	Spiridon Papoulis, University of Tennessee
2015-2016	Brenna Terry, K. Mukhtar Lab
2015-2016	Jessica Lopez, S. Mukhtar Lab

**Postdoctoral (Michigan State University)**

2011	Guest Lecturer, MMG 803 (Topics in Integrative Microbiology): Cooperation and cheating in microbial populations
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**Graduate (University of Tennessee)**

2009-2010	Teaching Assistant, Advanced Microbiology Laboratory*
2006-2008	Teaching Assistant, Introductory Microbiology Laboratory Micro319
2008	Guest Lecturer, Microbial Physiology: Photosynthesis
2007	Teaching Assistant, Microbiology Laboratory for non-majors Micro219
2008-2009	Managed joint research project between University of Tennessee and a rural high school Scientific Research Course (Lincoln County High School, Tennessee)

**MENTORED STUDENTS AND POSTDOCS**

\* *indicates co-author on published or submitted manuscript*

**Postdocs (4 total, 4 current): Elizabeth Entwistle\*** (2016- ); **Keri Kemp** (2019- ); **Penny Carroll** (2019- ); **Robert Akscyn** (2019- )

**Graduate Students (4 total, 3 current): Sarah Adkins\*** (PhD, 2016- ); **Julian Jackson** (MS, 2017-2019, currently in Oral Health Sciences dental program at Boston University); **Melissa Walker** (PhD, 2018- ); **Matthew Kuhl** (MS, 2019- )

**Undergraduate Students (27 total, 3 current): Qutia Roberts** (2018- ); **Justin Jones** (2019- ); **Meghan Letson** (2018-2019); **Zeenia Punjani** (2018-2019); **L. Paige Bramblett** (2017-2018); **Matthew Kuhl** (2018-2019); **Rachel Rock\*** (2015-2019); **Elliot Greene** (2017-2018, currently microbiologist at Cahaba Brewing Company); **Joey Johnson** (2017); **Joseph Thornton** (2017); **Charlie Keith** (2016); **Christina Cooley** (2016-2018); **Malik Bothwell** (2016); **Sarah Adkins** (2015-2016); **Lakshmi Subramani** (2015); **Erica Turner** (2015); **Jessica Jimenez** (2014); **Ellyse Cipolla** (2013); **Grace Scarsella** (2012); **Spiridon Papoulis\*** (2012-2014, currently PhD Student at University of Tennessee); **Robert Fillinger** (2013-2014, currently PhD student at Ohio State University); **Colleen Clark** (2013-2014); **Ruchira Ramani** (2011); **Matt Williams** (2011); **Martin Szul\*** (2008-2010); **Josh Rucker** (2007); **Elizabeth Coultas** (2008-2010)

**High School Students (5 total): Margaret Knight\*** (2016-2017); **Bela Patel** (2016-2017); **Virgil Shepherd** (2015); **Julie Liu** (2012); **Marissa Connelly** (2008)

**STUDENT/POSTDOC ACCOMPLISHMENTS****Elizabeth Entwistle (Postdoc, 2016- )**

2018 **ASM Microbe**, Poster and Oral Presentation, Atlanta, GA  
 2017 **UAB Center for Free Radical Biology Regional Meeting**, Poster Presentation, Birmingham, AL

**Sarah Adkins (PhD Student, 2016- )**

2019 **ASM Student Chapter Funding**, \$400  
 2019 **Gordon Research Conference on Undergraduate Biology Education**, Poster Presentation and Discussion Leader, Lewiston, ME  
 2019 **ASCB COMPASS Outreach Grant**, \$1000  
 2019 **SSE Small Grants Program for Local and Regional Outreach Promoting the Understanding of Evolutionary Biology**, \$500  
 2019 **UAB National Alumni Society Dean's Scholarship**, \$500  
 2019 **Phi Sigma Travel Grant**, \$400  
 2019 **UAB Graduate Student Government Travel Grant**, \$400  
 2019 **Alabama Academy of Sciences**, Oral Presentation, Tuskegee, AL  
 Outstanding Winner in STEM Education, \$60  
 2019 **Alabama Academy of Sciences Travel Award**, \$71  
 2019 **Daniel Jones Excellence in Graduate Studies Award**, \$2,000

- 2019 **Discoveries in the Making**, Invited Talk, Birmingham, AL
- 2019 **CIRTL All-Network Presentation**, Invited Talk, remote participation
- 2019 **BioHack Academy**, Invited Talk, Waag Academy, Amsterdam, Netherlands (remote participation)
- 2018 **ASMCUE**, Poster Presentation, Austin, TX
- 2018 **ASM Microbe**, Poster Presentation and Oral Presentation, Atlanta, GA
- 2018 **Same Parts**, biology-themed art exhibition, Ground Floor Contemporary studio, Birmingham, AL
- 2018 **CORD Hot Science Program**, Keynote Speaker, Birmingham, AL
- 2018 **Discoveries in the Making**, Invited Talk, Birmingham, AL
- 2017 **SABER Meeting**, Roundtable Discussion Leader, Minneapolis, MN
- 2017 **Arts and Initiative Social Good at UAB**, \$1000
- 2017 **NSF Graduate Research Fellowship**, \$138,000
- 2017 **UAB Psychology Department Study Away** scholarship, \$1,000
- 2017 **ASM Microbe**, Poster Presentation, New Orleans, LA
- 2017 **Athens State University**, Invited Talk
- 2017 **UAB Darwin Day Expo**, Poster Presentation, 1st place winner
- 2017 **Alabama Academy of Sciences**, Oral Presentation, Mobile, AL  
1st place in STEM Education Award
- 2016 **Alabama Academy of Sciences**, Poster Presentation, Florence, AL
- 2016 **UAB CIRTL** scholarship, \$1,418
- 2016-2017 **UAB Graduate School Individual Fellowship Incentive Plan**, \$1500

#### **Melissa Walker (PhD Student, 2018- )**

- 2019 **NSF Graduate Research Fellowship**, \$138,000
- 2019 **Phycological Society of America Annual Meeting**, Poster Presentation, Fort Lauderdale, FL
- 2019 **Biology Department Travel Award**
- 2018 **Southeastern Phycological Colloquy**, Oral Presentation, Jacksonville, FL

#### **Julian Jackson (MS Student 2017-2019)**

- 2018-2019 **UAB Chapter of the Southeastern ASM Branch**, Vice President
- 2017 **UAB Darwin Day Expo**, Poster Presentation
- 2016-2019 **Parker High School Robotics Team**, leader

#### **Rachel Rock (Undergraduate mentee, 2015-2019)**

- 2019 **Athens State Mini-Symposium**, Oral Presentation, Athens, AL
- 2019 **Alabama Academy of Sciences**, Oral Presentation, Tuskegee, AL  
1st place in STEM Education
- 2019 **Alabama Academy of Sciences Student Travel Award**
- 2018 **Alabama Academy of Sciences Research Grant**, \$250
- 2017 **Crawford T. and Virginia Johnson Presidential Scholarship**, \$1,000
- 2017 **Ken R. Marion Endowed Scholarship**, \$2,000
- 2017 **Biology Department Scholarship**, \$316
- 2017 **UAB Center for Free Radical Biology Regional Meeting**, Poster Presentation, Birmingham, AL

2016-2017                   **Sci-Tech Honors Research Stipend, \$1,500**  
2016                         **UAB Undergraduate Research Expo, 1st place in Service Learning**

**Margaret Knight (High School intern, 2016-2017)**

2017                         **Central Alabama Regional Science and Engineering Fair**, Poster Presentation, Birmingham, AL  
1st in division, won a 5-day family trip to Disneyworld  
2017                         **Alabama Science and Engineering Fair**, Poster Presentation  
3rd place in Environmental and Earth Science category; also won four special prizes (Boeing "Best Scientific Achievement", NOAA "Best of Show: Taking the Pulse of the Planet Award", The Stockholm Junior Water Prize "Senior Outstanding Project", and the NASA Earth System Science Award)

**Spiridon Papoulis (Undergraduate mentee, 2012-2014)**

2015                         **AbSciCon**, Oral Presentation, Chicago, IL  
2014                         **ASM General Meeting**, Poster Presentation, Boston, MA  
2014                         **ASM Student Travel Award**  
2014                         **REU scholarship** for summer research at University of Tennessee  
2013                         **BEACON Congress**, Poster Presentation, East Lansing, MI  
2013                         **UURAF Poster Competition**, Poster Presentation, East Lansing, MI

**Other Students**

2019                         Zeenia Punjani, **Alabama Academy of Sciences**, Poster Presentation, Tuskegee, AL  
2019                         Zeenia Punjani, **Alabama Academy of Sciences Student Travel Award**  
2015                         Colleen Clark, **UURAF Poster Competition**, Poster Presentation, East Lansing, MI  
2014                         RJ Fillinger, **UURAF Poster Competition**, Poster Presentation, East Lansing, MI