

Jennifer Farrell

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Education

- **(in-progress) PhD in Biological Sciences (2018 - Current)**
Sam Brown Lab, Georgia Institute of Technology, Atlanta, GA
- **MSc Clinical Microbiology (2016 – 2017)**
University of Nottingham, Nottingham, England, UK
- **Bachelor's in Biology (2010 – 2014)**
Reed College, Portland, OR

Research

- **PhD research: Georgia Institute of Technology (2018 – Current)**
PI: Prof. Sam Brown
The role of the respiratory microbiome in the pathogenesis and treatment of respiratory infection, especially in cystic fibrosis and nosocomial pneumonia.
- **Master's Thesis in Clinical Microbiology: University of Nottingham (2016 - 2017)**
PI: Prof. Paul Williams
Quorum sensing and *Pseudomonas aeruginosa* attachment to indwelling devices.
- **Research Technician: Weill Cornell Medical College (2014 - 2015)**
PI: Dr. Dirk Schnappinger
Mycobacterium tuberculosis drug target identification.
- **Undergraduate Thesis in Microbiology: Reed College (2013 –2014)**
PI: Prof. Jay Mellies
Effects of bacteriophage treatment on *Pseudomonas aeruginosa* and *E.coli* biofilm density.

Leadership and Service

- Founder and President of American Society for Microbiology Student and Postdoctoral Chapter at Georgia Tech (pending ASM approval)
- Founding member of the Events Committee: Georgia Tech Center for Microbial Dynamics and Infection (2021 – Current)
- Founding member of the Seminar Organizing Committee: Georgia Tech Center for Microbial Dynamics and Infection (2019 – Current)
- Research mentor to undergraduate collaborators (2018 – current)
- Graduate Teaching Assistant, Biology (2018 – 2019)

- Student Representative for Clinical Microbiology MSc Program: University of Nottingham (2016-2017)
- Critical Care Academic Associates Program: Oregon Health and Sciences University Hospital (2013-2014)
- Microbiology Tutor and Laboratory Assistant: Reed College (2013-2014)
- Biological Sciences Tutor: Reed College (2011-2014)

Publications & Presentations

- **Jennifer M. Farrell**, Conan Zhao, Keiko M. Tarquinio, Sam P. Brown. "Causes and consequences of COVID-19 associated bacterial infections." *Frontiers in Microbiology* 12 (2021): 1911.
- John J. Varga, Conan Zhao, Jacob D. Davis, Yiqi Hao, **Jennifer M. Farrell**, James R. Gurney, Eberhard Voit, Sam P. Brown. "Antibiotics drive expansion of rare pathogens in a chronic infection microbiome model." In-review
- **Jennifer M. Farrell** and Sam P. Brown. "Evolution of bacterial trade in a two-species community." *Proceedings of the National Academy of Sciences* 115.47 (2018): 11874-11875.
- **Jennifer M. Farrell**, Conan Zhao, Yiqi Hao, Sam P. Brown. Poster, North American Cystic Fibrosis Conference, 2019, "Antibiotics Drive Competitive Release of Pathogens in a CF Lung Microbiome Model".

Academic Honors & Society Memberships

- American Thoracic Society Student Scholar (2020)
- Georgia Institute of Technology President's Fellowship
 - ***Awarded to PhD applicants who "bring exemplary levels of scholarship and innovation to the academic departments who host their study and research".***
- Graduated MSc program with Distinction (highest possible honors)
- Biology Undergraduate Research Program Grant (2013-2014)
 - ***Senior thesis funded in full.***
- Reed College Presidential Scholarship (2010-2014)
 - ***Full scholarship for undergraduate study***
- HB Pock Women in Science Scholarship (2013-2014)
- Commendation for Academic Excellence (2010-2011)
- ASM Student Member (2013 – Present)
- American Thoracic Society Student Member (2020 – Present)