

# Gabriel (Gaybe) Moore, Ph.D

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## Education

- 2021 **Doctor of Philosophy**, *Princeton University*, Princeton, NJ.  
Department of Molecular Biology
- 2017 **Master of Arts**, *Princeton University*, Princeton, NJ.  
Department of Molecular Biology  
Cumulative GPA: 3.25/4.00
- 2015 **Bachelor of Arts**, *Oberlin College*, Oberlin, OH.  
Major in Biology and Musical Studies | Minor in Chemistry  
Cumulative GPA: 3.51/4.00

## Work Experience

### Current Position

- 2023 - **Assistant Professor of Biology**, *Oberlin College*, Oberlin, OH.
- Research Focus: Identification and characterization of environmental opportunistic pathogens using *in vivo* infection model *Galleria mellonella*
  - Courses Taught: Introduction to Biology (Lab and Lecture), Introduction to Global Health, Immunity and Pathogenesis

### Scientific Research

- 2015 - 2021 **Doctoral Research**, *Dr. Zemer Gitai*, Princeton University.  
Thesis: Elucidating the pathogenic repertoire of a bacterium
- 2013 - 2015 **Oberlin College Research Fellowship**, *Dr. Maureen Peters*, Oberlin College.  
Project: An intestinal gap-junction protein is needed for proper neuromuscular function in *C. elegans*
- 2014 **Building Diversity in the Biomedical Sciences**, *Dr. Abraham Sonenshein*, Tufts University School of Medicine.  
Project: Using synthetic ligands to activate a global regulator protein in endospore-forming bacteria *B. subtilis*

### Teaching and Mentoring Undergraduate Students

- 2018 - 2019 **Senior Thesis Advisor**, *Princeton University Department of Molecular Biology*, Princeton, NJ.
- Offered 1-on-1 advising with an undergraduate student to construct, execute, and defend a senior thesis research project
- 2017 - 2018 **Teaching Assistant**, *Princeton University*, Princeton, NJ.
- Courses Taught: Modern Genetics and Public Policy, Introduction to Molecular Biology
  - Developed and led small group discussions on class materials
  - Graded and provided feedback on lab reports, exams, policy memos, and essays
  - Fostered development of laboratory techniques and presentation of scientific material with students
- 2017 **Rematch Graduate Mentor**, *Princeton University Office of Undergraduate Research*, Princeton, NJ.
- Mentored an undergraduate student to accomplish a summer research project by teaching laboratory techniques and helping develop scientific inquiry and presentation skills
- 2013 - 2015 **Teaching Assistant and Tutor for Intro to Chemistry Lab**, *Oberlin College Department of Chemistry*, Oberlin, OH.
- Led multiple lab sections, graded lab reports, and provided hands-on assistance with experimental protocols

## Diversity and Equity, Social Justice, and Public Health

- 2022 - 2023 **Program Management Officer**, *New Jersey Department of Health*, Trenton, NJ.
- Created grant metrics, performed grant reviews, oversaw the distribution of \$10M to 23 grant recipients, and collaborated with community-based organizations and medical centers to meet deliverable action plans related to COVID-19 testing, vaccination, contact tracing, isolation/quarantine, and case management in vulnerable communities.
- 2021 - 2022 **Science and Politics Postdoctoral Fellow**, *Eagleton Institute of Politics*, New Brunswick, NJ.
- Conducted program research to develop and implement action-oriented metrics of diversity, equity, and inclusion in hiring, workplace retention, workplace environment and culture, community partnerships, and procurement for grant purposes at the NJ Department of Health.
  - Co-curated and facilitated a legislated COVID-19 Health Equity Task Force, bringing together state agencies, local public health and community-based organizations, and public members to address and mitigate health disparities in racial/ethnic minority and vulnerable communities caused by the COVID-19 pandemic, including social determinants of health.
- 2016 **Graduate Assistant**, *The LGBT Center*, Princeton, NJ.
- Engaged with students, staff, and faculty to create and maintain inclusive/educational spaces for LGBTQIA+ students
  - Re-instituted and oversaw the LGBT Center's "Q'nnections" Mentorship program that supported 96 students (undergraduate and graduate) and staff
  - Co-organized a regional conference for 100+ queer, trans, and/or person of color identifying individuals
- 2015 **Day of Service Coordinator**, *The Bonner Center for Service and Learning*, Oberlin, OH.
- Organized, supervised, and trained 450+ students and faculty to complete service projects at 37 different non-profits in the greater Lorain County
- 2011 - 2015 **Bonner Scholar (Senior Intern)**, *The Bonner Center for Service and Learning*, Oberlin, OH.
- Performed over 280 hours of community service annually with a focus on environmental sustainability, STEM and arts education, and community relations
  - Developed social programming for incoming first-generation and/or low-income students as part of the Bonner Scholars Program, including a week-long breakout service trip in Cleveland, OH

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## Publications

- 2023 **Moore GM**, Bratton BP, Ramos JR, and Gitai Z, CauloKO: a novel ordered transposon library in *Caulobacter crescentus*. In preparation for submission to *Journal of Bacteriology*.
- 2020 Martin JK\*, Sheehan JP\*, Bratton BP\*, **Moore GM**, Mateus A, Li SH, Kim H, Rabinowitz JD, Typas A, Savitski MM, Wilson MZ, Gitai Z, A Dual-Mechanism Antibiotic Kills Gram-Negative Bacteria and Avoids Drug Resistance. *Cell* S0092-8674(20): 30567-5.
- 2020 **Moore GM** and Gitai Z, Both clinical and environmental *Caulobacter* species are virulent in the *Galleria mellonella* infection model. *PLoS One* 15(3):e0230006.

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## Presentations

### Oral Research Presentations

- 2023 **An Ultrawarm Chain of Trust: Health Equity at the Center of Public Health Crisis**, *Oberlin College Special Seminar Series*, Oberlin, OH, (Invited Speaker).
- 2022 **Utilizing community outreach and partnerships for COVID-19 mitigation strategies**, *OT21-2103 Grant Update and Listening Session*, Virtual.
- 2021 **Unveiling the Pathogenic Repertoire of a Bacterium**, *Oberlin College Special Seminar Series*, Oberlin, OH, (Invited Speaker).
- 2020 **CauloKO: A functional knock-out, ordered library in *Caulobacter crescentus***, *CauloCon V2.0*, Virtual.
- 2019 **Broadening the Definition of Bacterial Pathogenesis in Human Infections**, *Princeton University Annual Graduate Staff Meeting*, Princeton, NJ, (Invited Speaker).
- 2018 **Redefining the pathogenic potential of *Caulobacter crescentus***, *Molecular Biology Departmental Colloquium*, Princeton, NJ.

- 2016 **Linking environmental conditions with cell curvature in *Caulobacter crescentus***, *Molecular Biology Departmental Colloquium*, Princeton, NJ.
- 2014 **Using synthetic ligands to activate a global regulator protein in endospore-forming bacteria** **Oral Presentation**, *The Leadership Alliance National Symposium*, Stamford, CT.
- 2011 **The Effects of Free Radicals in *Caenorhabditis elegans* on a Cranberry Diet**, *South Carolina Junior Academy of Sciences*, Orangeburg, SC.

#### Poster Research Presentations

- 2020 **Both clinical and environmental *Caulobacter* species act as opportunistic pathogens**, *American Association for the Advancement of Science Annual Meeting*, Seattle, WA.
- 2017 **Quantitative Analysis of Sacculus Architecture Remodeling (QuASAR): Methods and Applications**, *NOGLSTP Out to Innovate Career Summit*, Danvers, MA.
- 2017 **An INX-16-mediated calcium wave is required for neuropeptide release in *Caenorhabditis elegans***, *2015 International C. elegans Meeting*, Los Angeles, CA.
- 2014 **An intestinal gap-junction protein is needed for normal acetylcholine response in *Caenorhabditis elegans***, *Experimental Biology 2014*, San Diego, CA.

#### Workshops, Appearances, and Non-Research Presentations

- 2022 **mpox (Monkeypox) Public Service Announcement**, *New Jersey Department of Health*, State of New Jersey, (Television and Radio).
- 2022 **The Mpox Dialogues: Current State and Future Public Health Strategies**, *New Jersey Department of Health*, Virtual, (Invited Panelist).
- 2022 **Science Policy for Public Health and Social Equity**, *Society for the Advancement of Chicanos and Native Americans in Science*, San Juan, PR, (Accepted Workshop).
- 2021 **Careers in Science Policy**, *What Can You Be With A PhD 2021*, Virtual, (Invited Panelist).
- 2021 **A Kaleidoscope of Possibilities from Science to Advocacy**, *City College of New York Women in Science Inspiring Speaker Series*, Virtual, (Invited Speaker).
- 2020 **Black and In Drag: A conversation with Monet X Change and Peppermint**, *The LGBT Center at Princeton University*, Virtual, (Invited Facilitator).
- 2019 **Hack the Drag: Combining Wearable Technology and the Art of Drag**, *The LGBT Center at Princeton University*, Princeton, NJ, (Invited Facilitator, Event Organizer).
- 2019 **Maintaining Gender Authenticity in a Professional Setting**, *Society for the Advancement of Chicanos and Native Americans in Science*, Honolulu, HI, (Accepted Workshop).
- 2018 **Success in Graduate School**, *Princeton Graduate School Orientation*, Princeton, NJ, (Invited Panelist).
- 2017 **Story and Authenticity as QTPoC Scientists**, *Northeast Queer and Trans People of Color Conference*, Princeton, NJ, (Workshop, Conference Organizer).
- 2015 **Moved by the Spirit or the Music? Analyzing Modern Evangelical Worship Music Practices**, *Oberlin College Senior Symposium*, Oberlin, OH, (Accepted Presentation).
- 2014 **Trans 101**, *Oberlin College Athletics*, Oberlin, OH, (Training Facilitator).

## Leadership and Service

### Oberlin College

2015 - Now **Alumni Class President** *Class of 2015*

### New Jersey Department of Health

2022 - 2023 **COVID-19 Mercer County Ambassador** *Office of the Commissioner, NJDOH*

2021 - 2023 **Alternative Member** *NJ Behavioral Risk Factor Survey Advisory Committee*

### Princeton University

2020 - 2021 **Co-Chair** *University Student Life Committee*

2020 - 2021	<b>Vice President of Internal Affairs</b>	<i>Graduate Student Government</i>
2019 - 2020	<b>Special Events Officer</b>	<i>Graduate Student Government</i>
2018 - 2019	<b>Social Officer</b>	<i>Graduate Student Government</i>
2017 - 2019	<b>Diversity and Inclusion Committee Member</b>	<i>Department of Molecular Biology</i>
2017 - 2018	<b>Local Outreach Chair</b>	<i>Graduate Molecular Biology Outreach Program</i>
2017 - 2019	<b>President</b>	<i>Intersecting Queer Identities</i>
2016 - 2017	<b>Vice President</b>	<i>Black Graduate Caucus</i>
2015 - 2021	<b>Graduate Student Mentorship Committee Member</b>	<i>Department of Molecular Biology</i>

## Awards

2023	<b>Governor's Team Of Excellence Award</b>	<i>Office of New Jersey Governor Phil Murphy</i>
2022	<b>COVID-19 Certificate of Appreciation</b>	<i>New Jersey Department of Health</i>
2021	<b>Diversity and Inclusion Advocacy Award</b>	<i>Princeton University Molecular Biology Department</i>
2021	<b>Graduate Student Government COVID-19 Service Award</b>	<i>Princeton Graduate School</i>
2020	<b>Patrice Y. Johnson Memorial Service Award</b>	<i>Association of Black Princeton Alumni</i>
2020	<b>Sue Anne Steffey-Morrow "Super Queer" Rainbow Award</b>	<i>Princeton University LGBT Center</i>
2016 - 2019	<b>Leadership Award</b>	<i>Princeton University LGBT Center</i>
2016, 2017	<b>Predocctoral Fellowship Alternate/Honorable Mention</b>	<i>The Ford Foundation</i>
2015	<b>Undergraduate Travel Award</b>	<i>Genetics Society of America</i>
2015	<b>Hope Hibbard Memorial Scholarship</b>	<i>Oberlin College Department of Biology</i>
2014	<b>Poster Competition Travel Award</b>	<i>Tufts University Building Diversity in the Biomedical Sciences</i>
2014	<b>Robert Gunn Student Award Semi-Finalist</b>	<i>American Physiology Society</i>
2014	<b>Joshua Levitt Memorial Prize</b>	<i>Oberlin College Department of Biology</i>
2013	<b>Johnetta B. Cole Research Scholar</b>	<i>Oberlin College Department of Undergraduate Research</i>

## Professional Memberships and Societies

National Science Policy Network (NSPN)

American Association for the Advancement of Science (AAAS)

Society for the Advancement of Chicanos and Native Americans (SACNAS)

Sigma Xi

The Leadership Alliance