

# Andrew J. Hryckowian, Ph.D.

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Last updated: June 19, 2026

## Research Interests

Understand the metabolic, molecular, and genetic foundations of host-microbe interactions.  
Exploit this understanding to improve human health.

## Positions Held

|                                                                                                                                                                                                |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Judy L. and Sal A. Troia Endowed Professor in Gastrointestinal Disease Research                                                                                                                | Oct. 2023 – Pres.     |
| Departments of Medicine (Division of Gastroenterology and Hepatology) and Medical Microbiology & Immunology, University of Wisconsin School of Medicine and Public Health                      |                       |
| Assistant Professor, Departments of Medicine (Division of Gastroenterology and Hepatology) and Medical Microbiology & Immunology, University of Wisconsin School of Medicine and Public Health | May 2020 – Pres.      |
| Honorary Fellow, Department of Medicine, University of Wisconsin School of Medicine and Public Health                                                                                          | Oct. 2019 – Apr. 2020 |
| Research Scientist, Department of Microbiology and Immunology, Stanford University School of Medicine                                                                                          | 2019-2020             |
| Advisor: Justin L. Sonnenburg                                                                                                                                                                  |                       |
| Postdoctoral Research Fellow, Department of Microbiology and Immunology, Stanford University School of Medicine                                                                                | 2014-2019             |
| Advisor: Justin L. Sonnenburg                                                                                                                                                                  |                       |
| PhD Student, Department of Medical Microbiology and Immunology, University of Wisconsin-Madison                                                                                                | 2009-2014             |
| Advisor: Rodney A. Welch                                                                                                                                                                       |                       |
| Undergraduate Researcher and High School Phage Hunter, Department of Biological Sciences, University of Pittsburgh                                                                             | 2003-2009             |
| Advisor: Graham F. Hatfull                                                                                                                                                                     |                       |

## Formal Education

|                                                                                                         |           |
|---------------------------------------------------------------------------------------------------------|-----------|
| Ph.D., Microbiology, University of Wisconsin-Madison, Microbiology Doctoral Training Program            | 2009-2014 |
| · Thesis: Insights into the roles and regulation of RpoS in <i>Escherichia coli</i> and <i>Shigella</i> |           |
| B.S., Microbiology, University of Pittsburgh, Department of Biological Sciences (magna cum laude)       | 2005-2009 |
| · Minor in Chemistry, certificate in Conceptual Foundations of Medicine                                 |           |

## Preprints (Hryckowian lab members and journal in bold text)

2. **Dobрила HA, Licha H, Hryckowian AJ** (2026). EndD mediates butyrate-dependent toxin release in *Clostridioides difficile*. **bioRxiv**. In review at **Journal of Bacteriology**.
1. Nguyen TH, Su M, Lu NT, Trotter V, McKeithen-Mead SA, Lopez JA, Sun J, Hallberg Z, Shi H, Ho P-Y, DeFelice BC, Taga ME, Deutschbauer AM, **Hryckowian AJ**, Huang KC (2026) Phage-based microbiome manipulation reveals ecological interactions within gut communities. **bioRxiv**.

## Peer-reviewed publications (Hryckowian lab members and journal in bold text)

31. **Ling J**, Joyce LR, Doran KS, **Hryckowian AJ** (2026). A murine model of adult gastrointestinal colonization by Group B *Streptococcus*. **Infection & Immunity**. doi: <https://doi.org/10.1128/iai.00527-25>
30. **Dobрила HA, Hryckowian AJ** (2025). The emerging view on the roles of butyrate in *Clostridioides difficile* pathogenesis. **Infection & Immunity**. doi: <https://doi.org/10.1128/iai.00047-25>
29. **Gregory AL**, Bussan HE, Topf MA, **Hryckowian AJ** (2025). Impacts of *perR* on oxygen sensitivity, gene expression, and murine infection in *Clostridioides difficile* 630 $\Delta$ erm. **Journal of Bacteriology**. doi: <https://doi.org/10.1128/jb.00468-24>
28. Kirsch JM, **Hryckowian AJ**, Duerkop BA (2024). A metagenomics pipeline reveals insertion sequence-driven evolution of the microbiota. **Cell Host & Microbe**. doi: <https://doi.org/10.1016/j.chom.2024.03.005>
27. **Ling J, Hryckowian AJ** (2024). Re-framing the importance of Group B *Streptococcus* as a gut-resident pathobiont. **Infection & Immunity**. doi: <https://doi.org/10.1128/iai.00478-23>
26. **Pensinger DA, Dobрила HA, Stevenson DM, Hryckowian ND, Amador-Noguez D, Hryckowian AJ** (2024). Exogenous butyrate inhibits butyrogenic metabolism and alters virulence phenotypes in *Clostridioides difficile*. **mBio**. doi: <https://doi.org/10.1128/mbio.02535-23>
25. **Pensinger DA**, Fisher AT, **Dobрила HA**, Van Treuren W, Gardner JO, Higginbottom SK, Carter MM, Schumann B, Bertozzi CR, Anikst V, Martin C, Robilotti EV, Chow J, Buck RH, Tompkins LS, Sonnenburg JL, **Hryckowian AJ** (2023). Butyrate differentiates permissiveness to *Clostridioides difficile* infection and influences growth of diverse *C. difficile* isolates. **Infection & Immunity**. doi: <https://doi.org/10.1128/iai.00570-22>
24. Hanson L, VandeVusse L, Forgie M, Malloy E, Singh M, Scherer M, Kleber D, Dixon J, **Hryckowian AJ**, Safdar N (2022). A randomized controlled trial of an oral probiotic to reduce antepartum Group B *Streptococcus* colonization and gastrointestinal symptoms. **American Journal of Obstetrics & Gynecology Maternal Fetal Medicine**. doi: <https://doi.org/10.1016/j.ajogmf.2022.100748>

23. Lynch JB, Bennett BD, Merrill BD, Ruby EG, **Hryckowian AJ** (2022). Independent host- and bacterium-based determinants protect a model symbiosis from phage predation. **Cell Reports**. doi: <https://doi.org/10.1016/j.celrep.2022.110376>
22. Pruss KM, Enam F, Battaglioli EJ, DeFeo M, Diaz OR, Higginbottom SK, Fischer CR, **Hryckowian AJ**, Van Treuren W, Dodd D, Kashyap P, Sonnenburg JL (2022). Oxidative ornithine metabolism supports non-inflammatory *C. difficile* colonization. **Nature Metabolism**. doi: <https://doi.org/10.1038/s42255-021-00506-4>
21. \*Gregory AL, \*Pensinger DA, **Hryckowian AJ** (2021). A short chain fatty acid-centric view of *Clostridioides difficile* pathogenesis. **PLoS Pathogens**. \*Co-first doi: <https://doi.org/10.1371/journal.ppat.1009959>
20. Flaherty KE, Grembi JA, Ramachandran VV, Haque F, Khatun S, Rahman MM, Maples S, Becker T, Spormann AM, Schoolnik GK, **Hryckowian AJ**, Nelson EJ (2021). High-throughput low-cost nl-qPCR for enteropathogen detection: A proof-of-concept among hospitalized patients in Bangladesh. **PLoS ONE**. doi: <https://doi.org/10.1371/journal.pone.0257708>
19. **Hryckowian AJ** (2021). Microbiome Management for the 21<sup>st</sup> Century and Beyond. **mSystems**. doi: <https://doi.org/10.1128/mSystems.00760-21>
18. Shkoporov AN, Khokhlova EV, Stephens N, Hueston C, Seymore S, **Hryckowian AJ**, Scholz D, Ross RP, Hill C (2021). Long-term persistence of crAss-like phage crAss001 is associated with phase variation in *Bacteroides intestinalis*. **BMC Biology**. doi: <https://doi.org/10.1186/s12915-021-01084-3>
17. \***Hryckowian AJ**, \*Merrill DB, Porter NT, Van Treuren W, Nelson EJ, Garlena RA, Russell DA, Martens EC, ^Sonnenburg JL (2020). *Bacteroides thetaiotaomicron*-infecting bacteriophage isolates inform sequence-based host range predictions. **Cell Host & Microbe**. doi:<https://doi.org/10.1016/j.chom.2020.06.011> \*Co-first, ^Co-corresponding
16. Nelson EJ, Grembi JA, Chao DL, Andrews JR, Alexandrova L, Rodriguez PH, Ramachandran VV, Sayeed MdA, Wamala WJ, Debes AK, Sack DA, **Hryckowian AJ**, Haque F, Khatun S, Rahman M, Chien A, Spormann AM, Schoolnik GK (2020). Gold-standard cholera diagnostics are tarnished by lytic bacteriophage. **Journal of Clinical Microbiology** doi:<https://doi.org/10.1128/JCM.00412-20>
15. \*Porter NT, \***Hryckowian AJ**, Merrill DB, Fuentes JJ, Gardner JO, Glowacki RWP, Singh S, Crawford RD, Snitkin ES, Sonnenburg JL, ^Martens EC (2020). Phase-variable capsular polysaccharides and lipoproteins modify bacteriophage susceptibility in *Bacteroides thetaiotaomicron*. **Nature Microbiology**. doi:<https://doi.org/10.1038/s41564-020-0746-5> \*Co-first, ^Co-corresponding
14. Garland M, **Hryckowian AJ**, Tholen M, Loscher S, Van Treuren W, Oresic-Bender K, Sonnenburg JL, Bogyo M (2020). The clinical drug candidate ebselen attenuates inflammation and promotes microbiome recovery after antibiotic treatment for *Clostridium difficile* infection. **Cell Reports Medicine** doi:<https://doi.org/10.1016/j.xcrm.2020.100005>
13. Alexandrova L, Haque F, Rodriguez P, Marrazzo AC, Grembi JA, Ramachandran V, **Hryckowian AJ**, Adams CM, Siddique SA, Khan AI, Qadri F, Andrews JR, Rahman M, Spormann AM, Schoolnik GK, Chien A, Nelson EJ (2019). Identification of widespread antibiotic exposure in cholera patients correlates with clinically relevant microbiota changes. **The Journal of Infectious Diseases** doi:<https://doi.org/10.1093/infdis/jiz299>
12. Napier BA, Andres-Terre M, Mattis LM, **Hryckowian AJ**, Higginbottom SK, Cumnock K, Casey KM, Lugo KA, Schneider DS, Sonnenburg JS, Monack DM (2019). Western diet regulates immune status and the response to LPS-driven sepsis independent of the microbiome. **Proceedings of the National Academy of Science** doi:<https://doi.org/10.1073/pnas.1814273116>
11. **Hryckowian AJ**, Van Treuren W, Smits SA, Davis NM, Gardner JO, Bouley DM, Sonnenburg JL (2018). Microbiota accessible carbohydrates suppress *Clostridium difficile* infection in a murine model. **Nature Microbiology** doi:10.1038/s41564-018-0150-6
10. Dodd D, Spitzer MH, Van Treuren W, Merrill BD, **Hryckowian AJ**, Higginbottom SK, Le A, Cowan TM, Nolan GP, Fischbach MA, Sonnenburg JL (2017). A gut bacterial pathway metabolizes aromatic amino acids into nine circulating metabolites. **Nature** 551, 648-652 doi:10.1038/nature24661
9. \***Hryckowian AJ**, \*Pruss KM, Sonnenburg JL (2017). The emerging metabolic view of *Clostridium difficile* pathogenesis. **Current Opinion in Microbiology** 35, 42-47. doi:10.1016/j.mib.2016.11.006, \*Co-first
8. Oresic-Bender K, Garland M, Ferreyra JA, **Hryckowian AJ**, Child MA, Puri AW, Solow-Cordero DE, Higginbottom SK, Segal E, Banaei N, Shen A, Sonnenburg JL, Bogyo M (2015). Identification of a small molecule anti-virulence agent for the treatment of *Clostridium difficile* infection. **Science Translational Medicine** 7(306):306ra148. doi:10.1126/scitranslmed.aac9103
7. **Hryckowian AJ**, Baisa GA, Schwartz KJ, Welch RA (2015). *dsdA* does not affect colonization of the murine urinary tract by *Escherichia coli* CFT073. **PLoS ONE** 10(9):e0138121. doi:10.1371/journal.pone.0138121
6. Ferreyra JA, Wu K, **Hryckowian AJ**, Bouley D, Weimer B, Sonnenburg JL (2014). Gut microbiota-produced succinate promotes *Clostridium difficile* infection after antibiotic treatment or motility disturbance. **Cell Host & Microbe** 16, 770-777. doi:10.1016/j.chom.2014.11.003
5. **Hryckowian AJ**, Battesti A, Lemke JJ, Meyer ZC, Welch RA (2014). IraL is an RssB anti-adaptor that stabilizes RpoS during logarithmic phase growth in *Escherichia coli* and *Shigella*. **mBio** 5(3). doi:10.1128/mBio.01043-14
4. **Hryckowian AJ**, Welch RA (2013). RpoS contributes to phagocyte oxidase-mediated stress resistance during urinary tract infection by *Escherichia coli* CFT073. **mBio** 4(1). doi:10.1128/mBio.00023-1
3. Battaglioli EJ, Baisa GA, Weeks AE, Schroll RA, **Hryckowian AJ**, Welch RA (2011). Isolation of generalized transducing bacteriophages for uropathogenic strains of *Escherichia coli*. **Applied and Environmental Microbiology** 77(18):6630-5. doi:10.1128/AEM.05307-11
2. Hatfull GF, Jacobs-Sera D, Lawrence JG, Pope WH, Russell DA, Ko CC, Weber RJ, Patel MC, Germane KL, Edgar RH, Hoyte NN, Bowman CA, Tantoco AT, Paladin EC, Myers MS, Smith AL, Grace MS, Pham TT, O'Brien MB, Vogelsberger AM, **Hryckowian AJ**, Wynalek JL, Donis-Keller H, Bogel MW, Peebles CL, Cresawn SG, Hendrix RW (2010). Comparative genomic analysis of sixty mycobacteriophage genomes: genome clustering, gene acquisition and gene size. **Journal of Molecular Biology** 397, 119-143. doi:10.1016/j.jmb.2010.01.011
1. Hatfull GF, Pedulla ML, Jacobs-Sera D, Cichon PM, Foley A, Ford ME, Gonda RM, Houtz JM, **Hryckowian AJ**, Kelchner VA, Namburi S, Pajcini KV, Popovich MG, Schleicher DT, Simanek BZ, Smith AL, Zdanowicz GM, Kumar V, Peebles CL, Jacobs WR Jr, Lawrence JG, Hendrix RW (2006). Exploring the mycobacteriophage metaproteome: Phage genomics as an educational platform. **PLoS Genetics** Vol. 2, No. 6, e92. doi:10.1371/journal.pgen.0020092

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|---------------------------------------------------------------------------------------------------------------------------------|-----------|
| NIH Research Project Grant (R01) Grant # 1R01AI195616-01                                                                        | 2026-2031 |
| NIH Exploratory/Developmental Grant (R21) Grant # 1R21AI190655                                                                  | 2026-2028 |
| Research Grant, University of Wisconsin-Madison Food Research Institute                                                         | 2025-2026 |
| Grateful Patient Philanthropy Program Pilot Grant, Wisconsin Foundation & Alumni Association                                    | 2024-2026 |
| NIH Maximizing Investigators' Research Award (MIRA) for Early Stage Investigators Grant # 1R35GM150996                          | 2023-2028 |
| University of Wisconsin Prevention Research Center Small Grant (CDC cooperative agreement #1U48DP006383)                        | 2022-2023 |
| Abbott Nutrition R&D Grant ZB40: Fermentable Carbohydrates as Modulators of <i>C. difficile</i> Infection                       | 2016-2020 |
| Stanford University School of Medicine Dean's Postdoctoral Fellowship                                                           | 2016-2017 |
| National Institutes of Health National Research Service Award: Molecular Basis of Host Parasite Interaction Grant #5T32AI007328 | 2015      |
| Howard Hughes Medical Institute Summer Undergraduate Research Fellowship                                                        | 2007-2008 |

### Honors and Awards

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|---------------------------------------------------------------------------------------------------------------------------------------|------------|
| Vilas Faculty Early-Career Investigator Award, Office of the Vice Chancellor for Research, University of Wisconsin-Madison            | 2025-2028  |
| Forrest Research Foundation Visiting Fellow, University of Western Australia                                                          | July 2024  |
| Judy L. and Sal A. Troia Endowed Professor in Gastrointestinal Disease Research                                                       | 2023-Pres. |
| Distinguished Scholars Program, National Institutes of Health Intramural Research Program                                             | 2019       |
| · I declined this award and the associated position in the NIH intramural Research Program in order to join the faculty at UW-Madison |            |
| Earl Stadtman Investigator, National Institutes of Health Intramural Research Program                                                 | 2019       |
| · I declined this award and the associated position in the NIH intramural Research Program in order to join the faculty at UW-Madison |            |
| Visiting Scholar, Kewalo Marine Laboratory, University of Hawai'i                                                                     | Nov. 2017  |
| Annual Biomedical Research Conference for Minority Students, Judge Travel Award                                                       | 2017       |
| PLoS Early Career Travel Award                                                                                                        | 2017       |
| American Society for Microbiology (ASM) Student/Postdoc Travel Grant                                                                  | 2016       |
| Vilas Conference Presentation Award, University of Wisconsin-Madison Graduate School                                                  | 2013       |
| National Science Foundation Travel Award                                                                                              | 2013       |
| Richard and Mary Finkelstein Award, ASM                                                                                               | 2013       |
| Microbiology Doctoral Training Program Student Travel Award                                                                           | 2013       |
| 19 <sup>th</sup> Annual Midwest Microbial Pathogenesis Conference Poster Abstract Award                                               | 2012       |
| Phi Beta Kappa, University of Pittsburgh                                                                                              | 2009       |

### Teaching

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|-----------------------------------------------------------------------------------------------------------------------------|------------------|
| Course Director, MMI 902: The role of the Human Microbiome in Health and Disease, University of Wisconsin-Madison           | 2023 – Pres.     |
| Guest lecturer, Advanced Biotechnology, University of Wisconsin-Madison                                                     | 2025, 2026       |
| · One lecture given per year                                                                                                |                  |
| Guest facilitator, MMI 811, Responsible Conduct of Research                                                                 | 2024, 2025       |
| · Facilitated one session per year                                                                                          |                  |
| Guest lecturer, MICROBIOLOGY/ONCOLOGY 545: Topics in Biotechnology, Current Developments in Biotechnology                   | 2024             |
| · One lecture given                                                                                                         |                  |
| Guest lecturer, PATH 807: Immunopathology: The Immune System in Health and Disease, University of Wisconsin-Madison         | 2024, 2026       |
| · One lecture given per year                                                                                                |                  |
| Guest lecturer, MMI 740: Mechanisms of Microbial Pathogenesis                                                               | 2023-2025        |
| · Two lectures given each year                                                                                              |                  |
| Guest lecturer, PATH 803: Pathogenesis of Major Human Diseases, University of Wisconsin-Madison                             | 2021-2025        |
| · Two lectures given each year                                                                                              |                  |
| Guest lecturer, MMI 554: Emerging Infectious Diseases and Bioterrorism                                                      | 2021, 2022       |
| · One lecture given each year                                                                                               |                  |
| Instructor, MMI 301: Pathogenic Bacteriology, University of Wisconsin-Madison                                               | 2021, 2022       |
| · Five lectures given in 2021, four lectures given in 2022                                                                  |                  |
| Guest lecturer, MMI 902: The Role of the Human Microbiome in Health and Disease, University of Wisconsin-Madison            | 2021, 2022       |
| · One lecture given each year                                                                                               |                  |
| Guest lecturer, MMI 710: Symbiosis, University of Wisconsin-Madison                                                         | 2021, 2023, 2025 |
| · One lecture given each year                                                                                               |                  |
| Guest lecturer, BSC 497: Biological Barriers in Health and Disease, University of Alabama ( <i>Virtual</i> )                | 2020, 2022       |
| · One lecture given each year                                                                                               |                  |
| Guest lecturer, UF Pediatrics Fellows Research Conference, University of Florida ( <i>Cancelled, COVID-19</i> )             | 2020             |
| Guest lecturer, MI 211: Advanced Immunology, Stanford University                                                            | 2018-2019        |
| Guest lecturer, PATH-BIO 517: Veterinary Bacteriology and Mycology, University of Wisconsin-Madison                         | 2018             |
| Guest lecturer, MI 221: Gut Microbiota in Health and Disease, Stanford University                                           | 2017, 2019       |
| Guest lecturer, MI 210: Advanced Pathogenesis of Bacteria, Viruses, and Eukaryotic Parasites, Stanford University           | 2016             |
| Guest lecturer, MI 215: Principles of Biological Techniques, Stanford University                                            | 2015-2020        |
| Teaching assistant, MMI 301: Pathogenic Bacteriology, University of Wisconsin-Madison                                       | 2010             |
| Workshop instructor, Science Teacher Access to Research at Stowers "STARS" Workshop, Stowers Institute for Medical Research | 2009             |
| Workshop instructor, Finding and Researching Mycobacteriophages "FARM Team" Workshop, Duke University                       | 2006             |
| Workshop instructor, Summer Phagehunting Teacher Workshops, University of Pittsburgh                                        | 2005-2009        |

**Mentoring and Outreach**

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| Invited Panelist, American Society for Microbiology "Microbiology, Public Health, and History" Film Festival, University of Tennessee Southern                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2023       |
| Advisor to PhD students                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2021-Pres. |
| <ul style="list-style-type: none"> <li>· Jack Rodriguez (Jan. 2025 – Pres.) <ul style="list-style-type: none"> <li>· SciMed Graduate Research Scholars Fellowship (Sept. 2024 – Aug. 2025)</li> </ul> </li> <li>· Nathan Smith (Jan. 2025 – Pres.)</li> <li>· Joie Ling (Jan. 2023 – Pres.) <ul style="list-style-type: none"> <li>· Robert H. and Carol L. Deibel Distinguished Graduate Fellowship in Probiotic Research (Sept. 2025-Aug. 2026)</li> <li>· National Science Foundation Graduate Research Fellowship (Sept. 2022-Aug 2025)</li> </ul> </li> <li>· Alex Dobrila (Jan. 2022 – Pres.) <ul style="list-style-type: none"> <li>· National Science Foundation Graduate Research Fellowship (Sept. 2023-Aug. 2026)</li> </ul> </li> <li>· Anna Gregory (Jan 2021 – Dec 2025). <b>Current Position:</b> Adjunct Instructor at Edgewood University, Madison, WI <ul style="list-style-type: none"> <li>· Wisconsin Initiative for Science Literacy Award for Communicating PhD Research to the Public (January 2026)</li> <li>· National Science Foundation Graduate Research Fellowship (June 2022-May 2025)</li> <li>· Marie Christine Kohler Fellowship (2021-2023)</li> </ul> </li> <li>· Elise Cowley (Jan. 2021 – Dec. 2023), MD/PhD student co-advised with Karthik Anantharaman (Bacteriology, UW-Madison).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |
| <b>Current Position:</b> Resident Physician at Full Circle Health – Boise Program, Boise ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |
| · Computation and Informatics in Biology and Medicine Fellowship, NIH T15 LM007359 (2020-2023)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |
| Advisor to Undergraduate Researchers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2021-Pres. |
| <ul style="list-style-type: none"> <li>· Nathaniel Lam (2025-Pres.)</li> <li>· Kristina Mazharovska-Simak (2025-Pres.)</li> <li>· Richard Wolff (2024-2025). <b>Current Position:</b> Neurology Post-Baccalaureate Research Fellow in Hande Ozdinler's lab at Northwestern University, Chicago IL; MS student, Pharmaceutical Science Applied Drug Development Program, UW-Madison, Madison WI <ul style="list-style-type: none"> <li>· UW-Madison Food Research Institute Summer Undergraduate Fellowship (2025)</li> </ul> </li> <li>· Ethan Pham (2024-2025). <b>Current Position:</b> CHEM 109 Lab Teaching Assistant, Department of Chemistry, UW-Madison, Madison WI</li> <li>· Ranjini Sarkar (2024). <b>Current Position:</b> Undergraduate Research Assistant, Betul Kacar Lab, Department of Bacteriology, UW-Madison, Madison WI</li> <li>· Lily Tran (2023-2024). <b>Current Positions:</b> Undergraduate Lab Assistant, Wisconsin Veterinary Diagnostic Laboratory, UW-Madison, Madison WI; Undergraduate Researcher, Charlie Mo lab, Department of Bacteriology, UW-Madison, Madison WI</li> <li>· Henrieta Licha (2023-2025). <b>Current Position:</b> MSc Student in Epidemiology of Infectious Diseases and AMR, University of Glasgow, Scotland</li> <li>· Hazel Lietz (2022-2025). <b>Current Position:</b> Graduate Student in the Endocrinology and Reproductive Physiology Program, UW-Madison, Madison WI <ul style="list-style-type: none"> <li>· Hildale Undergraduate/Faculty Research Fellowship (2024-2025)</li> </ul> </li> <li>· Dhvani Trivedi (2022). <b>Current Position:</b> Method Development and Validation Scientist at Pfanstiehl, Inc. Waukegan IL</li> <li>· Koda Parker (2021-2022). <b>Current Position:</b> Clinical Research Coordinator I, UW Carbone Cancer Center, Madison WI <ul style="list-style-type: none"> <li>· UW-Madison Food Research Institute Summer Undergraduate Fellowship (2022)</li> </ul> </li> </ul> |            |
| Postdoctoral Mentoring Committees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2026-Pres. |
| · Izabella Sall, Claire O'Leary lab, UW-Madison (2026-Pres.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |
| Thesis Committees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2020-Pres. |
| <ul style="list-style-type: none"> <li>· Anne Lemek, UW-Madison Microbiology Doctoral Training Program (MDTP) (2026-Pres.)</li> <li>· Kira Ruiz-Houston, UW-Madison MDTP (2026-Pres.)</li> <li>· Amanda Appel, UW-Madison MDTP (2025-Pres.)</li> <li>· Doran Goldman, UW-Madison MDTP (2025-Pres.)</li> <li>· Christopher Birk, Graduate School of Life Sciences, University of Würzburg (2025-Pres.)</li> <li>· Beatrice Severance, UW-Madison Genetics Training Program (2025-Pres.)</li> <li>· Gillian Hughes, UW-Madison MDTP (2024-Pres.)</li> <li>· Amran Gazi, UW-Madison Nutrition and Metabolism Graduate Program (2023-Pres.)</li> <li>· Katie Cataldo, UW-Madison MDTP (2022-2026)</li> <li>· Eddy Cruz, UW-Madison MDTP (2022-2025)</li> <li>· Lea Cattaneo, UW-Madison MDTP (2021-2022)</li> <li>· Madeline Topf, UW-Madison MDTP (2021-2025)</li> <li>· Sarah Evert, UW-Madison Integrative Program in Biochemistry Program (2021-2026)</li> <li>· Susan Zelasko, UW-Madison Medical Scientist Training Program and MDTP (2021-2024)</li> <li>· Chavin Buasakdi, UW-Madison Bacteriology Masters Program (2020-2022)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |
| Scientist, "Skype a Scientist" outreach program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2018-2019  |
| Poster presentation judge, Annual Biomedical Research Conference for Minority Students 2017, Phoenix, AZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2017       |
| Invited lecture: "Gut reactions: the microbiome in health and disease"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2017       |
| <i>Alta Bates Summit Medical Center, Diabetes Self Management Lecture Series, Berkeley, CA</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |
| Invited lecture: "What's your gut telling you? The microbiome in health and disease"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2017       |
| <i>HeartFit for Life Program of the Cardiac Therapy Foundation: "Meet the MD Expert" Lecture Series, Palo Alto, CA</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |
| Invited lecture: "Who needs whom? Tales of the microbiota"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2016       |
| <i>The Exploratorium After Dark: Identity, San Francisco, CA</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |
| Invited lecture: "Microbiome: Sorting the hype from the hope"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2016       |
| <i>Cambridge Healthtech Institute's 23<sup>rd</sup> International Molecular Medicine Tri-Conference 2016, San Francisco, CA</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Research mentor of three rotation students (Winter 2015, Winter 2016, Spring 2019), a post-baccalaureate researcher (Winter 2017-Summer 2018), a summer high school student researcher (Summer 2018), and a medical student (Spring 2019-Winter 2019), Sonnenburg Laboratory, Stanford University | 2015-2019        |
| Interviewer, Adelante STEM Fair, Adelante Spanish Immersion Elementary School, Redwood City, CA                                                                                                                                                                                                   | 2015, 2016, 2019 |
| Moderator, Microbiology and Immunology Postdoc Town Hall Community Meetings, Stanford University                                                                                                                                                                                                  | 2015-2018        |
| Research mentor of four undergraduate students, Welch Laboratory, University of Wisconsin-Madison                                                                                                                                                                                                 | 2011-2014        |
| Research mentor of two undergraduate students, Howard Hughes Medical Institute Summer Research Fellowship, University of Pittsburgh                                                                                                                                                               | 2008             |
| Research mentor of eight high school and undergraduate students, Hatfull Laboratory, University of Pittsburgh                                                                                                                                                                                     | 2005-2009        |

### Committee Services and Affiliations

|                                                                                                   |            |
|---------------------------------------------------------------------------------------------------|------------|
| RISE-THRIVE Faculty Search Committee, Department of Medical Microbiology & Immunology, UW-Madison | 2026       |
| Wisconsin Institute for Discovery (WID) Fellow                                                    | 2025-Pres. |
| University of Wisconsin Prevention Research Center Faculty Affiliate                              | 2022-Pres. |
| WID AJEDI planning committee                                                                      | 2022-Pres. |
| UW-Madison Food Research Institute Faculty Affiliate                                              | 2022-Pres. |
| UW-Madison Biomedical Research Model Services Gnotobiotic Core Faculty Advisory Committee         | 2022-Pres. |
| UW-Madison Microbiology Doctoral Training Program (MDTP) Admissions Committee                     | 2021-2024  |
| WID Faculty Affiliate                                                                             | 2020-2025  |

### Other Service

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Grant Reviewer, National Institutes of Health Center for Scientific Review<br>· ZRG1 KUDS-R (03) Study Section, April 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2026       |
| Preliminary Exam Facilitator, Microbiology Doctoral Training Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2026       |
| Poster Judge, Department of Medicine Research Day, UW-Madison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2025, 2026 |
| Member, <i>Infection &amp; Immunity</i> Editorial Board                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2025-Pres. |
| Judge, David Wissler Memorial Research Competition, Division of Gastroenterology and Hepatology, UW-Madison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2024       |
| Trainer, Allergy/Immunology Institutional National Research Service Award (T32), UW-Madison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2024-Pres. |
| Trainer, Microbes in Health and Disease Institutional National Research Service Award (T32), UW-Madison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2024-Pres. |
| Committee Reviewer, American Gastroenterological Association Institute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2023-2024  |
| Grant Reviewer, University of Wisconsin School of Medicine & Public Health Institute for Clinical & Translational Research                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2023       |
| Peer Partner for assistant professors (Margaret Alexander & Gustavo Caballero-Flores) in the Department of Medical Microbiology & Immunology, UW-Madison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2023-Pres. |
| American Gastroenterological Association Microbiome & Microbial Therapy Section, Councilor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2022-Pres. |
| Morgridge Institute Metabolism Colloquium Seminar Host<br>· Michi Taga PhD, University of California-Berkeley                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2022       |
| UW Madison Department of Medical Microbiology & Immunology Departmental Seminar Host<br>· Eric Nelson MD PhD, University of Florida                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2025       |
| · Aimee Shen PhD, Tufts University                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2025       |
| · Travis Wiles PhD, University of California-Irvine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2024       |
| · Luiz Pedro Sorio de Carvalho PhD, The Wertheim University of Florida Scripps Institute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2024       |
| · Casey Theriot PhD, North Carolina State University                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2023       |
| · Sean Colgan PhD, University of Colorado School of Medicine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2022       |
| · Suzanne Devkota PhD, Cedars-Sinai Medical Center                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2021       |
| UW Madison Department of Medicine, Division of Gastroenterology and Hepatology Grand Rounds Host<br>· Purna Kashyap MBBS, Mayo Clinic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2022       |
| · Karthik Anantharaman PhD, UW-Madison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2022       |
| Grant Reviewer, University of Wisconsin-Madison Research Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2022       |
| Early Career Reviewer, Early Career Reviewer Program, National Institutes of Health Center for Scientific Review<br>· BACP Study Section, June 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2022       |
| Associate Trainer, Metabolism and Nutrition Training Program Institutional National Research Service Award (T32), UW-Madison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2021-Pres. |
| Organizer, Monthly Division of Gastroenterology and Hepatology Research Updates, UW-Madison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2021-2023  |
| Session Chair, <i>The 13<sup>th</sup> Cold Spring Harbor Meeting on Microbial Pathogenesis and Host Response</i> (Virtual)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2021       |
| Session Chair, International Conference on the Molecular Biology and Pathogenesis of the Clostridia (Virtual)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2021       |
| Ad hoc Peer Reviewer. Reviewed at least one manuscript for each of the following journals:<br><i>Anaerobe, Cell, Cell Chemical Biology, Cell Reports, Cell Reports Medicine, Clinical and Translational Gastroenterology, Critical Reviews in Food Science and Nutrition, Current Opinion in Microbiology, EcoSal Plus, eLife, Gut Microbes, Infection and Immunity, Journal of Bacteriology, Journal of Visualized Experiments, mBio, Microbial Genomics, Microbiome, mSystems, Nature, Nature Communications, Nature Microbiology, Nature Reviews Immunology, PLoS ONE, PLoS Pathogens, Proceedings of the National Academy of Science, Proceedings of the Royal Society B, Science Advances, Springer Books, Virology</i> | 2020-Pres. |
| Grant Reviewer, Gordon and Betty Moore Foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2019       |
| Organizer, "Macroecological Insights into Microbiome Resilience and Function 2019" Working Group, Santa Fe Institute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2019       |
| Moderator, Career Panel, Stanford Microbiology and Immunology Departmental Scientific Conference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2018       |
| Grant Reviewer, Biocodex Microbiota Foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2017       |
| Organizer, 3 <sup>rd</sup> Annual Stanford Microbiome Summit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2017       |
| Organizer, 20 <sup>th</sup> Edwin Shultz Memorial Lecture, Speaker: Jo Handelsman                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2017       |

|                                                                      |           |
|----------------------------------------------------------------------|-----------|
| Organizer, Stanford Microbiology and Immunology Departmental Retreat | 2015-2016 |
| Microbiology Doctoral Training Program (MDTP) Steering Committee     | 2013      |
| Organizer, MDTP Student Hosted Seminar, Speaker: Graham Hatfull      | 2013      |
| MDTP Admissions Committee                                            | 2012      |
| MDTP Student Advising Committee                                      | 2011      |
| MDTP Recruiting Committee                                            | 2010-2012 |

### Continuing Education Since Joining the Faculty at UW-Madison

|                                                                                                                      |      |
|----------------------------------------------------------------------------------------------------------------------|------|
| Education Scholarship Retreat, Office for Faculty Affairs and Development, UW-Madison                                | 2025 |
| Leadership in the Lab workshop series, Learning and Talent Development, Office of Human Resources, UW-Madison        | 2024 |
| Mentoring Up: How to Make the Most of Your Mentors workshop series, Department of Medicine, UW-Madison               | 2023 |
| Mentoring to Achieve Research Independence (MATRIX) grant writing workshop series, UW-Madison                        | 2022 |
| Culturally-Aware Research Mentor Training workshop series, UW-Madison                                                | 2021 |
| Full Speed Ahead: A workshop series on early faculty success with and without a scary virus, Burroughs Wellcome Fund | 2020 |

### Membership in Professional Societies

|                                                         |            |
|---------------------------------------------------------|------------|
| The International Society for Viruses of Microorganisms | 2024-Pres. |
| The American Society for Microbiology                   | 2012-Pres. |

### Invited Oral Presentations (\* = scheduled)

|                                                                                                                                  |       |
|----------------------------------------------------------------------------------------------------------------------------------|-------|
| Glutathione is a host-derived cysteine source for <i>Clostridioides difficile</i>                                                |       |
| · Department of Cellular and Developmental Biology, Yale University School of Medicine                                           | *2027 |
| · Medical Microbiology & Immunology Department Retreat, University of Wisconsin-Madison                                          | *2026 |
| Veggies and viruses for managing our microbiomes                                                                                 |       |
| · Department of Biological Sciences, Montana Technological University                                                            | 2026  |
| Infection determinants of crAss-like phages                                                                                      |       |
| · 2026 Sensory Transduction in Microorganisms Gordon Research Conference, Ventura, CA                                            | 2026  |
| · Viruses of Microbes 2024, Cairns, Australia                                                                                    | 2024  |
| Microbiome-pathogen-host interactions in <i>Clostridioides difficile</i> infection: Nutrients, signals, and future interventions |       |
| · Wisconsin Institute for Discovery 2026 Microbiome Symposium, UW-Madison                                                        | 2026  |
| · Department of Chemistry, Wertheim UF Scripps Institute for Biomedical Innovation & Technology                                  | 2026  |
| · Department of Microbiology & Cell Biology, Montana State University                                                            | 2026  |
| · Department of Microbiology and Immunology, University of Minnesota                                                             | 2026  |
| · Centre for New Antibacterial Strategies, The Arctic University of Norway                                                       | 2025  |
| · Department of Structural Biology and Chemistry, Institut Pasteur                                                               | 2025  |
| Diet as a tool to understand Group B <i>Streptococcus</i> gastrointestinal colonization                                          |       |
| · 2024 Streptococcal Biology Gordon Research Conference, Newry, ME                                                               | 2024  |
| Viruses and veggies as tools for managing our microbiomes                                                                        |       |
| · Australian Society for Microbiology Western Australia Branch Seminar Series, University of Western Australia                   | 2024  |
| Infection determinants of crAss-like phages                                                                                      |       |
| · Viruses of Microbes 2024, Cairns, Australia                                                                                    | 2024  |
| Butyrate-imposed tradeoffs in <i>C. difficile</i> metabolism and pathogenesis                                                    |       |
| · 8 <sup>th</sup> International <i>C. difficile</i> Symposium, Bled, Slovenia                                                    | 2024  |
| · Division of Gastroenterology and Hepatology, Department of Medicine, University of Pennsylvania                                | 2024  |
| Exogenous butyrate inhibits butyrogenic metabolism and alters virulence phenotypes in <i>Clostridioides difficile</i>            |       |
| · Department of Immunology and Microbiology, University of Colorado – Anschutz Medical Campus                                    | 2024  |
| A butyrate-centric view of <i>Clostridioides difficile</i> pathogenesis                                                          |       |
| · University of Chicago-UW-Madison Nutrition Sciences T32 Retreat, University of Chicago                                         | 2023  |
| · Department of Microbiology & Immunology Seminar Series, University of Iowa                                                     | 2023  |
| From cells to communities: The multi-scale impacts of bacteriophages in the gut microbiome                                       |       |
| · Institute for Molecular Virology Seminar Series, University of Wisconsin-Madison                                               | 2023  |
| Determinants of Phage Susceptibility and Resistance                                                                              |       |
| · AGA Beyond Gut Bacteria: Transkingdom Interactions Underlying GI Disease, Digestive Disease Week, Chicago, IL                  | 2023  |
| A short chain fatty acid-centric view of <i>Clostridioides difficile</i> pathogenesis                                            |       |
| · Department of Molecular Biology and Biochemistry Departmental Seminar Series, University of California-Irvine                  | 2023  |
| · 2022 Midwest Microbial Pathogenesis Conference, Madison, WI                                                                    | 2022  |
| · 8 <sup>th</sup> Conference on Beneficial Microbes, University of Wisconsin-Madison, Madison, WI                                | 2022  |
| · Medical Microbiology & Immunology Seminar Series, Department of Medical Microbiology & Immunology                              | 2022  |
| University of Wisconsin-Madison                                                                                                  |       |
| · Department of Food Science, University of Wisconsin-Madison                                                                    | 2022  |
| · Bacterial Pathogenesis Supergroup, University of Wisconsin-Madison                                                             | 2021  |
| Determinants of adult gastrointestinal Group B <i>Streptococcus</i> carriage                                                     |       |
| · UW-Madison Prevention Research Center Community Advisory Board Meeting, Madison, WI                                            | 2022  |
| Dietary modulation of <i>C. difficile</i> infection                                                                              |       |
| · Food Research Institute 2022 Spring Meeting, University of Wisconsin-Madison, Madison, WI                                      | 2022  |
| Independent host- and bacterium-based determinants protect a model symbiosis from phage predation                                |       |
| · 12 <sup>th</sup> Asian Symposium on Microbial Ecology (Virtual)                                                                | 2022  |



|                                                                                                                                  |      |
|----------------------------------------------------------------------------------------------------------------------------------|------|
| Human-resident microbes: A critical factor in pathogen susceptibility                                                            |      |
| · Infectious Disease Interest Group, University of Wisconsin School of Medicine and Public Health                                | 2022 |
| Precision interventions for Group B <i>Streptococcus</i> infections                                                              |      |
| · Department of Obstetrics and Gynecology, University of Wisconsin-Madison, Madison, Wisconsin (Virtual)                         | 2022 |
| <i>Bacteroides thetaiotaomicron</i> as a chassis for understanding gut-resident bacteriophages                                   |      |
| · APC Microbiome Ireland, APC Postdoc Association Invited Speaker, University College Cork, Cork, Ireland (Virtual)              | 2021 |
| · The 13 <sup>th</sup> Cold Spring Harbor Meeting on Microbial Pathogenesis and Host Response (Virtual)                          | 2021 |
| · Department of Environmental and Global Health, University of Florida, Gainesville, FL (Virtual)                                | 2020 |
| · Microbiome Virtual Seminar Series, Microbiome Hub, University of Wisconsin-Madison, Madison, WI (Virtual)                      | 2020 |
| · Department of Bioengineering, University of California, Berkeley, Berkeley, CA                                                 | 2019 |
| · APC Microbiome Ireland Symposium: Challenges in Microbiome Science, Cork, Ireland                                              | 2019 |
| · The 2019 Evergreen International Phage Biology Meeting, Olympia, WA                                                            | 2019 |
| · The 22 <sup>nd</sup> International Microbial Genomes Conference, Lake Arrowhead, CA                                            | 2018 |
| The diet-driven metabolic ecology of <i>Clostridium difficile</i> infection                                                      |      |
| · The 34 <sup>th</sup> Annual Kenneth B. Raper Symposium on Microbial Research, Madison, WI (Virtual)                            | 2020 |
| · The 15 <sup>th</sup> Biennial Congress of the Anaerobe Society of the Americas (Virtual)                                       | 2020 |
| · Francis Crick Institute Infectious Disease Interest Group, London, England                                                     | 2019 |
| · Abbott Laboratories Research and Development Seminar Series, Columbus, OH                                                      | 2018 |
| · The 11 <sup>th</sup> Cold Spring Harbor Meeting on Microbial Pathogenesis and Host Response, Cold Spring Harbor, NY            | 2017 |
| · EMBO   EMBL Symposium: New Approaches and Concepts in Microbiology, Heidelberg, Germany                                        | 2017 |
| Understanding and leveraging the microbial majority                                                                              |      |
| · Gastroenterology and Hepatology Grand Rounds, University of Wisconsin-Madison, Madison, WI (Virtual)                           | 2020 |
| Microbiome management for the 21 <sup>st</sup> Century and beyond                                                                |      |
| · Department of Medical Microbiology and Immunology, University of Wisconsin-Madison, Madison, WI                                | 2019 |
| · Division of Gastroenterology, Department of Medicine, University of Wisconsin-Madison, Madison, WI                             | 2019 |
| · Department of Molecular Virology and Microbiology, Baylor College of Medicine, Houston, TX                                     | 2019 |
| · National Institute of Allergy and Infectious Disease (NIAID), National Institutes of Health (NIH), Bethesda, MD                | 2019 |
| · Department of Pathobiological Sciences, University of Wisconsin-Madison, Madison, WI                                           | 2018 |
| · Department of Biological Sciences, University of Pittsburgh, Pittsburgh, PA                                                    | 2018 |
| · Laboratory of Bacteriology, Rocky Mountain Laboratories, NIAID/NIH, Hamilton, MT                                               | 2018 |
| <i>Vibrio fischeri</i> -infecting bacteriophages isolated from Kewalo Basin                                                      |      |
| · The 30 <sup>th</sup> Annual <i>Euprymna scolopes</i> - <i>Vibrio fischeri</i> symbiosis symposium, La Jolla, CA                | 2018 |
| Microbiota accessible carbohydrates facilitate clearance of <i>Clostridium difficile</i>                                         |      |
| · The 91 <sup>st</sup> Annual Meeting of the Japanese Society for Bacteriology, Fukuoka, Japan                                   | 2018 |
| · SRI International Pathway Tools Workshop 2018: Emphasis on Microbiome Metabolic Modeling, Menlo Park, CA                       | 2018 |
| Microbiota accessible carbohydrates as modulators of <i>Clostridium difficile</i> infection                                      |      |
| · The 6 <sup>th</sup> ASM Conference on Beneficial Microbes, Seattle, WA                                                         | 2016 |
| · West Coast Bacterial Physiologists Annual Asilomar Conference, Pacific Grove, CA                                               | 2015 |
| · The 10 <sup>th</sup> Cold Spring Harbor Meeting on Microbial Pathogenesis and Host Response, Cold Spring Harbor, NY            | 2015 |
| Why does uropathogenic <i>Escherichia coli</i> strain CFT073 have elevated levels of RpoS during logarithmic phase growth?       |      |
| · Department of Microbiology & Immunology, Stanford University, Stanford, CA                                                     | 2013 |
| · Department of Microbiology & Immunology, University of British Columbia, Vancouver, Canada                                     | 2013 |
| · Department of Entomology, Cornell University, Ithaca, NY                                                                       | 2013 |
| IraL is an RssB anti-adaptor that stabilizes RpoS during logarithmic phase growth in <i>Escherichia coli</i> and <i>Shigella</i> |      |
| · The 2013 Molecular Genetics of Bacteria and Phages Meeting, Madison, WI                                                        | 2013 |
| · The 113 <sup>th</sup> Annual ASM General Meeting, Denver, CO                                                                   | 2013 |

## Poster Presentations

|                                                                                                                                  |      |
|----------------------------------------------------------------------------------------------------------------------------------|------|
| Glutathione is a host-derived cysteine source for <i>Clostridioides difficile</i> during infection                               |      |
| · The 14 <sup>th</sup> International Conference on the Molecular Biology and Pathogenesis of Clostridia, Paris, France           | 2025 |
| Infection determinants of crAss-like phages                                                                                      |      |
| · Viruses of Microbes 2024, Cairns, Australia                                                                                    | 2024 |
| A butyrate-centric view of <i>Clostridioides difficile</i> pathogenesis                                                          |      |
| · The 15 <sup>th</sup> Cold Spring Harbor Meeting on Microbial Pathogenesis and Host Response, Cold Spring Harbor, NY            | 2023 |
| · The 13 <sup>th</sup> International Conference on the Molecular Biology and Pathogenesis of Clostridia, Banff, Canada           | 2023 |
| <i>Bacteroides thetaiotaomicron</i> as a chassis for understanding gut-resident bacteriophages                                   |      |
| · 2022 Cold Spring Harbor Microbiome Meeting, Cold Spring Harbor, NY                                                             | 2022 |
| · The 15 <sup>th</sup> Biennial Congress of the Anaerobe Society of the Americas, Seattle, WA (Cancelled, COVID-19)              | 2020 |
| · The 2018 Stanford Microbiology and Immunology Departmental Scientific Conference, Santa Cruz, CA                               | 2018 |
| · The 7 <sup>th</sup> Conference on Beneficial Microbes, Madison, WI                                                             | 2018 |
| Microbiome management for the 21 <sup>st</sup> Century and beyond                                                                |      |
| · The 2021 Midwest Microbial Pathogenesis Conference, East Lansing, MI                                                           | 2021 |
| The diet-driven metabolic ecology of <i>Clostridium difficile</i> infection                                                      |      |
| · 2019 Keystone Symposia Conference: Microbiome: Therapeutic Implications, Killarney, Ireland                                    | 2019 |
| · 2018 Keystone Symposia Conference: Microbiome, Host Resistance and Disease, Banff, Canada                                      | 2018 |
| Microbiota accessible carbohydrates as modulators of <i>Clostridium difficile</i> infection                                      |      |
| · The 2015 Stanford Microbiology and Immunology Departmental Retreat, Santa Cruz, CA                                             | 2015 |
| IraL is an RssB anti-adaptor that stabilizes RpoS during logarithmic phase growth in <i>Escherichia coli</i> and <i>Shigella</i> |      |
| · The 9 <sup>th</sup> Cold Spring Harbor Meeting on Microbial Pathogenesis and Host Response, Cold Spring Harbor, NY             | 2013 |

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|---------------------------------------------------------------------------------------------------------------------------------------|------|
| · The 27 <sup>th</sup> Annual Kenneth B. Raper Symposium on Microbial Research, Madison, WI                                           | 2013 |
| · The 113 <sup>th</sup> Annual ASM General Meeting, Denver, CO                                                                        | 2013 |
| RpoS-mediated oxidative stress resistance during urinary tract infection by <i>Escherichia coli</i> CFT073                            |      |
| · The 19 <sup>th</sup> Annual Midwest Microbial Pathogenesis Conference, Milwaukee, WI                                                | 2012 |
| · The 26 <sup>th</sup> Annual Kenneth B. Raper Symposium on Microbial Research, Madison, WI                                           | 2012 |
| · The 112 <sup>th</sup> Annual ASM General Meeting, San Francisco, CA                                                                 | 2012 |
| The role of <i>rpoS</i> during urinary tract infection of LPS-responsive and LPS-unresponsive hosts by <i>Escherichia coli</i> CFT073 |      |
| · The 25 <sup>th</sup> Annual Kenneth B. Raper Symposium on Microbial Research, Madison, WI                                           | 2011 |
| · The 2011 Molecular Genetics of Bacteria and Phages Meeting, Madison, WI                                                             | 2011 |
| Expanding our anti-tuberculosis arsenal: Finding help from a friend                                                                   |      |
| · The 109 <sup>th</sup> Annual ASM General Meeting, Philadelphia, PA                                                                  | 2009 |
| · ASM Allegheny Branch Meeting, Lewisburg, PA                                                                                         | 2008 |
| Expanding our anti-tuberculosis arsenal: Learning from a pro                                                                          |      |
| · Science 2008: On Our Watch, Pittsburgh, PA                                                                                          | 2008 |
| Generalized transduction in six similar mycobacteriophages                                                                            |      |
| · The 107 <sup>th</sup> ASM General Meeting, Toronto, Canada                                                                          | 2007 |
| Analysis of generalized transduction frequencies in six similar mycobacteriophages                                                    |      |
| · University of Pittsburgh Honors College Undergraduate Research Fair, Pittsburgh, PA                                                 | 2007 |
| Seven wonders of the phage world: The comparative genomics of seven similar mycobacteriophages                                        |      |
| · Science 2006: Feel the Power, Pittsburgh, PA                                                                                        | 2006 |
| · The 106 <sup>th</sup> Annual ASM General Meeting, Orlando, FL                                                                       | 2006 |
| Comparative genomics of mycobacteriophages Bxz1 and Catera                                                                            |      |
| · Science 2005: The New Research Ecology, Pittsburgh, PA                                                                              | 2005 |
| · The 2005 Molecular Genetics of Bacteria and Phages Meeting, Madison, WI                                                             | 2005 |