

Hunter J. Ries

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Education

2017 - 2021 **University of Wisconsin-Madison** Madison, WI, USA
B.S. in Microbiology (forthcoming)

Honors and Awards

2020 **Best Poster Presentation Award**, ASBMB Molecules in the Midwest Conference
2019 **Research Fellow Scholarship**, UW-Madison FRI
2019 **Scholarship for Summer Study**, UW-Madison
2019 **Margaret E. and Allard Smith Undergraduate Scholarship**, UW-Madison
2017 **Top Five Presenter Award**, UW-Madison Undergraduate Speech Conference
2017 **Rank of Eagle Scout**, Boy Scouts of America Troop 702

Research Experience

April 2020 - **University of Wisconsin-Madison** Madison, WI, USA
Present **Undergraduate Research Assistant**, 15 hours/week
Department of Pathobiological Sciences, Thomas Friedrich Lab
– Investigated Zika virus interhost virus adaptation using deep sequencing
– Analyzed deep sequencing data with Unix shell, Python, and RStudio

Sept 2018 - **University of Wisconsin-Madison** Madison, WI, USA
July 2020 **Undergraduate Research Assistant**, 20 hours/week
Department of Medicine, Rob Striker Lab
– Performed vector transformation, gene expression, and protein purification
– Designed biochemical assays to analyze phosphatase kinetics

May 2019 - **FRI Research Summer Scholar**, 40 hours/week
Aug 2019 Department of Medicine, Rob Striker Lab
– Designed a high throughput 100,480 small molecule screen
– Managed a small team to complete the aforementioned screen

May 2018 - **SSM Health at Agnesian HealthCare** Fond du Lac, WI, USA
Aug 2018 **Research Associate**, 20 hours/week
Treffert Center
– Characterized the etiology and attributes of sudden savant syndrome

Publications

1. **Ries, H.**, Treffert, D. (2020). *The Sudden Savant: A New Form of Extraordinary Abilities*. In preparation for *Wisconsin Medical Journal*.

Poster Presentations

1. "Discovery of *M. tuberculosis* phosphatase inhibitors using high-throughput small molecule screening" Perlman Symposium on Antibiotic Discovery and Development, Madison, WI, USA (Cancelled, 01 May 2020)

2. "Teaching old drugs new tricks: β -lactams and phosphatase inhibitors" UW-Madison CALS Undergraduate Research Symposium, Madison, WI, USA (Cancelled, 15 April 2020)
3. "Discovery of *M. tuberculosis* phosphatase inhibitors using high-throughput small molecule screening" ASBMB Molecules in the Midwest Conference, Madison, WI, USA (07 March 2020, received "**Best Poster Presentation Award**")
4. "Computational and biochemical analysis of PstP, a *Mycobacterium tuberculosis* phosphatase" UW-Madison Undergraduate Biology Conference, Madison, WI, USA (30 April 2019)

Oral Presentations

1. "Teaching old drugs new tricks: β -lactams and phosphatase inhibitors" UW-Madison CALS Undergraduate Research Symposium, Madison, WI, USA (Cancelled, 15 April 2020)
2. "Elucidating novel inhibitors for *S. aureus* phosphatase StP1 and *M. tuberculosis* phosphatase PstP" UW-Madison Microbiology Club Undergraduate Research Symposium, Madison, WI, USA (21 November 2019)
3. "A high-throughput assay for biochemical testing of computationally derived *Listeria monocytogenes* phosphatase inhibitors" Food Research Institute Undergraduate Research Symposium, Madison, WI, USA (26 July 2019)
4. "Drowsy, Deadly Doctors: Limiting Resident Hours Will Save Lives" UW-Madison Undergraduate Speech Conference, Madison, WI, USA (01 December 2017, received "**Top Five Presenter Award**")

Media Releases

1. "Fond du Lac County Health Department cautions residents to check carbon monoxide detectors and reduce exposure to carbon monoxide" Fond du Lac County Health Department, Fond du Lac, WI, USA (16 July 2018)
2. "Fond du Lac County Health Department is urging residents to avoid and wild animals in order to reduce possible exposure to the rabies virus" Fond du Lac County Health Department, Fond du Lac, WI, USA (05 July 2018)
3. "Fond du Lac County Health Department is now accepting dead birds to be tested for West Nile virus" Fond du Lac County Health Department, Fond du Lac, WI, USA (06 June 2018)

Involvement

2017 - Present	American Society for Biochemistry and Molecular Biology – UW-Madison Chapter
2017 - Present	American Society for Microbiology – UW-Madison Microbiology Club
2017 - Present	Students Participating in Laid-back Listening
2020 - Present	Greater University Tutoring Services (Microbiology and Biology)
2017 - 2019	Wisconsin Singers