

Sarah Stevens

PhD Candidate, Microbiology Doctoral Training Program

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Education

University of Wisconsin - Madison

PhD Candidate - Microbiology Doctoral Training Program - 2012-Present

SciMed GRS Fellow

University of Illinois Urbana - Champaign

Bachelor of Science - Molecular and Cellular Biology - 2007-2011

Minor in Informatics

James Scholar Honors

Research

University of Wisconsin - Madison, [McMahon Lab](#)

Graduate Research Assistant - 2012-Present

Classifying reference genomes (composite genomes from metagenomes and single-cell genomes) for unculturable but common freshwater bacteria and understanding how the related populations change through time using our metagenomic time series.

University of Illinois Urbana - Champaign, Metcalf Lab

Visiting Researcher - 2011-2012

Assembled genomes from isolates belonging to the archaeal genus *Methanosarcina* and analyzed shared genomic features of members of this genus.

University of Illinois Urbana - Champaign, Whitaker Lab

Undergraduate Research Assistant - 2010-2011

Studied insertion sequences in *Sulfolobus islandicus* in an independent project, Culturing archaea, organized sample/culture database, cleaned-up and prepped lab equipment.

Organizations

[Molecular Microbial Ecology and Evolution \(MoMiEE\)](#) focus group

Co-Chair - 2014-Present

[MoMiEE](#) provides an opportunity for researchers to discuss new computational tools and learn bioinformatics skills together. In addition, I lead python study group for those interesting in

learning python.

Software Carpentry

Instructor - **2015-Present**

Data Carpentry Genomics Hack-a-thon

Contributor - **Mar. 23-25, 2015**

DOE Joint Genome Institute

Intern/Affiliate - **Jan. 2015-Mar. 2015**

Presentations

Stevens, S. L. R., Bendall, M. L., Chan, L.-K., Malfatti, S., Schwientek, P., Tremblay, J., ... McMahon, K. D. Malmstrom, R. R. Genome-wide Selective Sweeps in Natural Bacterial Populations Revealed by Time-series Metagenomics (Oral Presentation). 15th International Symposium on Microbial Ecology. August 24, 2014. Seoul, South Korea. <https://goo.gl/6iunzo>

Stevens, S. L. R., Bendall, M. L., ... McMahon, K. D. Malmstrom, R. R. Dynamics of Sequence-Discrete Bacterial Populations Inferred Using Metagenomes (Poster Presentation). 15th International Symposium on Microbial Ecology. August 24, 2014. Seoul, South Korea. <https://goo.gl/qsYL32>

Stevens, S. L. R., Bendall, M. L., ... McMahon, K. D. Malmstrom, R. R. Dynamics of Sequence-Discrete Bacterial Populations Inferred Using Metagenomes (Poster Presentation). SciMed GRS Poster Session 2014. Sept. 03, 2014. Madison, WI.

Stevens, S. L. R., Bendall, M. L., ... McMahon, K. D. Malmstrom, R. R. Dynamics of Sequence-Discrete Bacterial Populations Inferred Using Metagenomes (Poster Presentation). DOE Joint Genome Institute User Meeting 2014. Walnut Creek, CA. <https://goo.gl/6iunzo>

Stevens, S. L. R. and K. D. Malmstrom. Complementing Metagenomes with Single Amplified Genomes (Poster Presentation). Raper Symposium 2013. University of Wisconsin - Madison.

Publications

Bendall, M. L.*, **Stevens, S. L. R.***, Chan, L.-K., Malfatti, S., Schwientek, P., Tremblay, J., ... Malmstrom, R. R. (*submitted to ISMEJ*). Genome-wide selective sweeps and gene-specific sweeps in natural bacterial populations. *Equal contributors

Teaching

McMahon Git Workshop

Instructor - **July 2015**

Software Carpentry Workshop - University of Wisconsin - Madison

Helper - **Jan. 13-16 2015**, **Jun. 3-4, 2015**

Bioinformatics Basics: Microbial Ecology and Evolution - Illinois Mathematics and Science Academy Intersession

Instructor - Jan. 2015

Microbiology 304: Biology of Microorganisms Laboratory - University of Wisconsin - Madison

Teaching Assistant/Instructor - Fall 2013