

# 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

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## 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 understand 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.

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## 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**

## DOE Joint Genome Institute

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

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## 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.

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## 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

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## Teaching

### McMahon Git Workshop

*Instructor* - **July 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**

