

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/6iunz0>

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/6iunz0>

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
