Benjamin D. Peterson

Graduate Research Assistant, McMahon Lab
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Education

University of Wisconsin - Madison Madison, WI
PhD candidate in Environmental Chemistry and Technology Program, current
Department of Civil and Environmental Engineering

State University of New York at Geneseo Geneseo, NY
Bachelor of Science, *summa cum laude* Biochemistry 2012
Honors Minor (Edgar Fellows Honors Program)

Employment and Research Experience

Animal Biologist (Contracter with Kelly's Government Services) 2014-2015
National Institute on Aging: Neuroplasticity and Behavior Unit PI: Dr. Henriette van Praag

Postbaccalaureate IRTA Research Fellow 2012-2014
National Institute on Aging: Neuroplasticity and Behavior Unit PI: Dr. Henriette van Praag

Undergraduate Research Assistant 2009-2012
State University of New York at Geneseo: Biology Department PI: Dr. George Briggs
Characterization of a Novel Specifier Protein in the Glucosinolate-Myrosinase Pathway in Brassica
rapa

Summer Undergraduate Research Assistant Summer 2011
University of Buffalo: Department of Biological Sciences PI: Dr. Denise Ferkey
Impact of G-protein coupled signaling receptors on chemosensation of quinine in C. elegans

Peer-reviewed publications

* indicates co-first authorship
** indicates undergraduate student I mentored

Mohammad, H., Marchisella, F., Ortega-Martinez, S., Hollos, P., Eerola, K., Komulainen, E., Kulesskaya, N., Freemantle, E., Fagerholm, V., Savontous, E., Rauvala, H., **Peterson, B.D.**, van Praag, H., Coffey, E.T., 2018. "JNK1 controls adult hippocampal neurogenesis and imposes cell-autonomous control of anxiety behaviour from the neurogenic niche." Mol Psychiatry 23, 362–374. https://doi.org/10.1038/mp.2016.203

Sah, N., ***Peterson, B.D.**, Lubejko, S.T., Vivar, C., van Praag, H., 2017. "Running reorganizes the circuitry of one-week-old adult-born hippocampal neurons." Sci Rep 7, 10903. https://doi.org/10.1038/s41598-017-11268-z

Vivar, C., **Peterson, B.D.**, van Praag, H., 2016. "Running rewires the neuronal network of adult-born dentate granule cells." NeuroImage 131, 29–41. https://doi.org/10.1016/j.neuroimage.2015.11.031

Pre-prints and submissions

Oral presentations

Invited talks

Contributed talks

Internal Seminars

Poster Presentations

Peterson, B.D., Ogorek, J., Tate, M., DeWild, J., McMahon, K.D. Distribution of mercury-methylating microbes along spatial and temporal redox gradients in a freshwater lake. Water at Wisconsin Poster Session, UW-Madison (2017)

Peterson, B.D., Ogorek, J., Tate, M., DeWild, J., McMahon, K.D. Distribution of mercury-methylating microbes along spatial and temporal redox gradients in a freshwater lake. Raper Symposium, UW-Madison (2017)

Peterson, B.D., Ogorek, J., Tate, M., DeWild, J., McMahon, K.D. Distribution of mercury-methylating microbes along spatial and temporal redox gradients in a freshwater lake. International Conference on Mercury as a Global Pollutant, Providence, RI (2017)

Peterson, B.D., Oyserman, B., McMahon, K.D. Spatial distribution of ultramicrobacteria along Lake Erie. IAGLR's Conference on Great Lakes Research, Detroit, MI (2017)

Peterson, B.D., McMahon, K.D. Vertical distribution of microbial communities during late stratification in a eutrophic, dimictic lake. International Society for Microbial Ecology conference, Montreal, Canada (2016)

Teaching and Mentoring

Undergraduate Mentor in McMahon Lab   2015-present
- Anna Grace Schmidt: - North Temperate Lakes Microbial Observatory Team

Organic Chemistry Tutor and Grader   2010-2012
Chemistry Department, SUNY-Geneseo

Service

Postbac IRTA Representative   2013-2015
National Institute on Aging

Geneseo Presidential Scholar   2011-2012
State University of New York at Geneseo

Grants and Awards

NSF GRFP	2016
Anna Grant Birge Memorial Scholarships	2016, 2017
Becker Travel Award	2016
Phi Beta Kappa	2012
Ulmer-Jackson Biochemistry Award	2012
Goldwater Scholar	2011
CRC Award to the Best Overall Student in Introductory Chemistry	2009
Geneseo Dean's List	7 semesters