

Olivia U. Mason
Curriculum Vitae

Assistant Professor
Florida State University
Earth, Ocean and Atmospheric Science
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Professional Preparation

University of Massachusetts, Amherst	Natural Resource Studies	B.S., 1997
Portland State University	Environmental Science	M.S., 2003
Oregon State University	Oceanography	Ph.D., 2008

Appointments

2012-Present Assistant Professor, Florida State University, Earth, Ocean and Atmospheric Science Department
2009-2012 Postdoctoral Fellow, Lawrence Berkeley National Lab, Ecology Department
2008-2009 Postdoctoral Scholar, Caltech, Division of Geological and Planetary Sciences
2003-2008 Oregon State University, Graduate Research Assistant
2002-2003 Portland State University, Graduate Research and Teaching Assistant
2000-2001 Fontbonne Academy, Biology, Chemistry and Physics Teacher

Publications

- Mackelprang, R and **Mason, OU**. (2016). Marine microbiology: Community clean up. *Nature Microbiology*.
- Smith, AR, Fisk, MR, Thurber, AR, Flores, GE, **Mason, OU**, Popa, R. (2016). Deep Crustal Communities of the Juan de Fuca Ridge Are Governed by Mineralogy. *Geomicrobiology Journal*, 00-00.
- **Mason, OU**, Canter, EJ[#], Gillies, LE[#], Paisie, TK^{##}, and Roberts, BJ. (2016). Mississippi River plume enriches microbial diversity in the northern Gulf of Mexico. *Front. Microbiol.* 7:1048. doi: 10.3389/fmicb.2016.01048
- Stevens, EWN, Bailey, JV, Flood, BE, Jones, DS, Gilhooly III, WP, Joye, SB, Teske, A, & **Mason, OU**. (2015). Barite encrustation of benthic sulfur-oxidizing bacteria at a marine cold seep. *Geobiology*, 13, 588-603. doi:10.1111/gbi.12154
- **Mason OU**, Case DH, Naehr TH, Lee RW, Thomas RB, Bailey JV, et al. (2015). Comparison of Archaeal and Bacterial Diversity in Methane Seep Carbonate Nodules and Host Sediments, Eel River Basin and Hydrate Ridge, USA. *Microb. Ecol.* 70:766-784. doi:10.1007/s00248-015-0615-6.
- Gillies LE[#], Thrash JC, de Rada S, Rabalais NN, **Mason OU**. (2015). Archaeal enrichment in the hypoxic zone in the northern Gulf of Mexico. *Environ. Microbiol.*, 10:3847-56. doi:10.1111/1462-2920.12853
- Rakowski, CV[#], Magen, C, Bosman, S, Rogers, K, Gillies, LE[#], Chanton, J, & **Mason, OU**. (2015). Methane and microbial dynamics in the Gulf of Mexico water column. *Front. Mar. Sci.*, 2:69. doi:10.3389/fmars.2015.00069
- **Mason, OU**, Han, J, Woyke, T, & Jansson, JK. (2014). Single-cell genomics reveals

features of a *Colwellia* species that was dominant during the Deepwater Horizon oil spill. *Front. Microbiol.*, 5:332. doi:10.3389/fmicb.2014.00332

- Lamendella, R, Strutt, S, Borglin, SE, Chakraborty, R, Tas, N, **Mason, OU**, Hultman, J, Prestat, E, Hazen, TC, & Jansson, JK. (2014). Assessment of the Deepwater Horizon oil spill impact on Gulf coast microbial communities. *Front. Microbiol.*, 5:130. doi:10.3389/fmicb.2014.00130
- Scott, NM, Hess, M, Bouskill, NJ, **Mason, OU**, Jansson, JK, & Gilbert, JA. (2014). The microbial nitrogen cycling potential in marine sediments is impacted by polyaromatic hydrocarbon pollution. *Front. Microbiol.*, 5:108 doi:10.3389/fmicb.2014.00108
- Paisie, TK^{##}, Miller, TE, & **Mason, OU**. (2014). Effects of a Ciliate Protozoa Predator on Microbial Communities in Pitcher Plant (*Sarracenia purpurea*) Leaves. *PLoS ONE*, 9, e113384. doi:doi:10.1371/journal.pone.0113384
- Trexler, R, Solomon, C, Brislawn, CJ, Wright, JR, Rosenberger, A, McClure, EE, Grube, AM, Peterson, MP, Keddache, M, Mason, OU, Hazen, TC, Grant, CJ, & Lamendella, R. (2014). Assessing impacts of unconventional natural gas extraction on microbial communities in headwater stream ecosystems in Northwestern Pennsylvania. *Front. Microbiol.*, 5, 522. doi:10.3389/fmicb.2014.00522
- **Mason, OU**, Scott, NM, Gonzalez, A, Robbins-Pianka, A, Bælum, J, Kimbrel, J, Bouskill, NJ, Prestat, E, Borglin, S, Joyner, DC, Fortney, JL, Jurelevicius, D, Stringfellow, WT, Alvarez-Cohen, L, Hazen, TC, Knight, R, Gilbert, JA and Jansson, JK. (2014). Metagenomics reveals sediment microbial community response to Deepwater Horizon oil spill. *ISMEJ* 8:1464-1475. doi:10.1038/ismej.2013.254
- Nicora, CD, Anderson, BJ, Callister, SJ, Norbeck, AD, Purvine, SO, Jansson, JK, **Mason, OU**, David, MM, Jurelevicius, D, Smith, RD, & Lipton, MS. (2013). Amino acid treatment enhances protein recovery from sediment and soils for metaproteomic studies. *Proteomics*, 13, 2776-85. doi:doi:10.1002/pmic.201300003
- Dubinsky, EA, Conrad, ME, Chakraborty, R, Bill, M, Borglin, SE, Hollibaugh, JT, **Mason, OU**, Piceno, YM, Reid, FC, Stringfellow, WT, Tom, LM, Hazen, TC, & Andersen, GL. (2013). Succession of Hydrocarbon-Degrading Bacteria in the Aftermath of the Deepwater Horizon Oil Spill in the Gulf of Mexico. *Environmental Science & Technology*, 47, 10860-10867. doi:10.1021/es401676y
- **Mason, OU**, Hazen, TC, Borglin, S, Chain, PSG, Dubinsky, EA, Fortney, JL, Han, J, Holman, H-YN, Hultman, J, Lamendella, R, Mackelprang, R, Malfatti, S, Tom, LM, Tringe, SG, Woyke, T, Zhou, J, Rubin, EM, and Jansson, JK. (2012). Metagenomics, metatranscriptomics and single cell sequencing reveal bacterial response to the Gulf oil spill. *ISME J* 6:1715-1727. doi:10.1038/ismej.2012.59
- Bælum, J, Borglin, S, Fortney, JL, Lamendella, R, **Mason, OU**, Bill, M, Conrad, ME, Malfatti, S, Tringe, SG, Holman, H-YN, Hazen, TC, and Jansson, JK. (2012). Deep-sea bacteria enriched by oil and dispersant from the Deepwater Horizon Spill. *Env. Micro.*, 9:2405-2416. doi:10.1111/j.1462-2920.2012.02780.x.
- Lu, Z, Deng, Y, Van Nostrand, JD, He, Z, Voordeckers, J, Zhou, A, Lee, Yong-Jin, **Mason, OU**, Dubinsky, EA, Chavarria, KL, Tom, LM, Fortney, JL, Lamendella, R, Jansson, JK, D'haeseleer, P, Hazen, TC, & Zhou, J. (2012). Microbial gene functions enriched in the Deepwater Horizon deep-sea oil plume. *ISME J*, 6(2), 451-460. doi:10.1038/ismej.2011.91

- Blackman, DK, & IODP Expeditions 304/305 Science Team. (2011). Drilling constraints on lithospheric accretion and evolution at Atlantis Massif, Mid-Atlantic Ridge 30°N. *Journal of Geophysical Research*, 116(B7), 1-x. doi:10.1029/2010JB007931
- Bertagnolli, AD, Treusch, AH, **Mason, OU**, Stingl, U, Vergin, KL, Chan, F, Beszteri, B, & Giovannoni, SJ. (2011). Bacterial diversity in the bottom boundary layer of the inner continental shelf of Oregon, USA. *Aquatic Microbial Ecology*, 64(1), 15-25.
- **Mason, OU**, Nakagawa, T, Rosner, M, Van Nostrand, JD, Zhou, J, Maruyama, A, Fisk, MR, & Giovannoni, SJ. (2010). First Investigation of the Microbiology of the Deepest Layer of Ocean Crust. *PLOS ONE*, 5(11), 1-x. doi:10.1371/journal.pone.0015399
- Hazen, TC, Dubinsky, EA, DeSantis, TZ, Andersen, GL, Piceno, YM, Singh, N, Jansson, JK, Probst, A, Borglin, SE, Fortney, JL, Stringfellow, WT, Bill, M, Conrad, ME, Tom, LM, Chavarria, KL, Alusi, TR, Lamendella, R, Joyner, DC, Spier, C, Baelum, J, Auer, M, Zemla, ML, Chakraborty, R, Sonnenthal, EL, D'Haeseleer, P, Holman, HYN, Osman, S, Lu, ZM, Van Nostrand, JD, Deng, Y, Zhou, JZ and **Mason, OU**. (2010). Deep-Sea Oil Plume Enriches Indigenous Oil-Degrading Bacteria. *Science* 330:204-208.
- **Mason, OU**, Di Meo-Savoie, CA, Van Nostrand, JD, Zhou, J, Fisk, MR, & Giovannoni, SJ. (2009). Prokaryotic diversity, distribution, and insights into their role in biogeochemical cycling in marine basalts. *ISME J*, 3(2), 231-242. doi:10.1038/ismej.2008.92
- **Mason, OU**, Stingl, U, Wilhelm, LJ, Moeseneder, MM, Di Meo-Savoie, CA, Fisk, MR, & Giovannoni, SJ. (2007). The phylogeny of endolithic microbes associated with marine basalts. *Environmental Microbiology*, 9(10), 2539-2550. doi:10.1111/j.1462-2920.2007.01372.x
- Ildelfonse, B, & IODP Expeditions 304/305 Science Team. (2007). Oceanic core complexes and crustal accretion at slow-spreading ridges. *Geology*, 35(7), 623-626.
- Fisk, M, Popa, R, **Mason, OU**, Storrie-Lombardi, M, & Vicenzi, E. (2006). Iron-magnesium silicate bioweathering on Earth (and Mars?). *Astrobiology*, 6(1), 48-68. doi:10.1089/ast.2006.6.48
- Amaral Zettler, LA, Laatsch, AD, Zettler, E, Nerad, TA, Cole, J, Diaz, FC, Diaz, J, Janzen, DH, Sittenfeld, ANA, **Mason, O**, & Reysenbach, Anna-Louise. (2005). A Microbial Observatory of Caterpillars: Isolation and Molecular Characterization of Protists Associated with the Saturniid Moth Caterpillar Rothschildia lebeau. *Journal of Eukaryotic Microbiology*, 52(2), 107-115. doi.org/10.1111/j.1550-7408.2005.05202008.x

Synergistic Activities

- Scientific Program Committee Member for the Microbiology and Molecular Ecology Session, Organizer, Early Career Workshop, Session Co-Chair ASLO, TOS, AGU Ocean Sciences Meeting (2016)
- Guest Scientist, FSUS Kindergarten – in classroom talk and hands on oceanography experiment (2015)
- Deep-C “Project Goo” citizen scientist participant-in classroom talks and hands on laboratory work to learn about oil spills (30 high school students at Lawton Chiles) (2014)
- Project Scientist “Superstar” participant (females ages 4-12) (2014)
- Ocean Sciences Meeting, ASLO, TOS, and AGU, Honolulu, Hawaii (2014)

Oral presentation: “Response of Sediment Microbial Community to the Deepwater Horizon Oil Spill”

Courses Taught

- Principles of Oceanography (OCE4008), Undergraduate
- Marine Microbial Ecology (OCB5636), Graduate
- Exploring Microbial Diversity (SPC TOP /BIOGLOCPHY), Graduate