

## Dr. Maude David, Academic Bio

She received her PhD in 2010 from the Ecole Centrale de Lyon, University of Lyon, France, with Prof. T.M. Vogel, on the origin of the dehalogenases and bioremediation of chlorinated solvent. Her grad-school work focused on the bacterial adaptation to chlorinated compounds at the genome (evolution mechanisms) and community (bioremediation) level. After graduation, she became a post-doctoral fellow at Lawrence Berkeley National Laboratory with Prof. Janet Jansson. Her work looked at the impact of climate change on soil microbial ecology and specifically at how altered precipitation affect carbon cycle using meta-“omics” analysis of microbial carbon cycling responses. In 2014, she started to work on the impact of the gut microbiome in autism in 2014 with Dennis Wall at Stanford School of Medicine, where she also worked on evolutionary constraints on human genome. She started as an assistant professor at Oregon State University in January 2018. Her expertise lays in microbiology, bioinformatics and genomics, using machine learning and multivariate analysis in order to integrate metagenomics, metatranscriptomics and metaproteomics and understand microbial community functions.