

# KALIOPI ZANNIS BOUSSES

University of Pennsylvania  
Department of Earth and Environmental Sciences  
240 South 33<sup>rd</sup> Street,  
Philadelphia, PA 19104  
Phone: (302)-242-1820  
e-mail: kbousses@sas.upenn.edu

## EDUCATION

- Ph.D in Geomicrobiology**, University of Pennsylvania August, 2018- Present  
ADVISOR: Dr. Ileana Pérez-Rodríguez, University of Pennsylvania, Department of Earth and Environmental Sciences, Philadelphia, PA  
RESEARCH PROJECT: Ecophysiology and bioenergetics of hydrogenotrophic CO<sub>2</sub> reducers from seafloor and subseafloor environments
- M.S in Marine Biosciences**, University of Delaware, 3.74 GPA June, 2018  
ADVISOR: Dr. Jennifer Biddle, College of Earth, Ocean and Environment, University of Delaware, Lewes, DE  
MASTER THESIS: Molecular analyses of microbial mats
- B.S in Marine Science: Concentration in Marine Biology- Chemistry Minor**, University of Delaware, 3.50 GPA May, 2016
- A.A.S in Chemistry**, Delaware Technical Community College, 3.56 GPA May, 2014
- A.A.S in Biology**, Delaware Technical Community College, 3.56 GPA May, 2014

## RESEARCH EXPERIENCE

- Undergraduate Research Intern through the Semester-In-Residence Program** (September, 2015-May 2016)  
ADVISOR: Dr. Jennifer Biddle, CEOE, University of Delaware, Lewes, DE  
PROJECT: Community composition and putative function of microbialites from Pavilion Lake, BC, Canada, as a part of the Pavilion Lake Research Project (PLRP)
- Undergraduate Research Intern through the DENIN Environmental Scholars Program** (October, 2014-May, 2015)  
ADVISOR: Dr. Jennifer Biddle, CEOE, University of Delaware, Lewes, DE  
PROJECT: Metagenomic analyses of deep-sea sediments from the Costa Rican margin
- Summer Research Intern** (June, 2014-August, 2014)  
ADVISOR: Dr. Stephen Tottey, Fraunhofer, Center for Molecular Biology, Newark, DE  
PROJECT: Small-scale protein extraction and purification from harvested plant tissue
- Undergraduate Summer Research Intern** (May, 2013-August, 2013)  
ADVISOR: Dr. Diane Herson, McKinly Laboratory, University of Delaware, Newark, DE  
PROJECT: Monitoring of microbial communities in honey bee hives
- Undergraduate Research Intern** (January, 2012 – May, 2014)  
ADVISOR: Dr. Virginia Balke, Delaware Technical Community College, Stanton, DE  
PROJECT: Investigations of variation in big brown bat (*Eptesicus fuscus*) diet using DNA barcoding

## AWARDS

Deep Carbon Observatory (DCO) Deep Life Cultivation Internship Program (April, 2019) to visit Dr. Marshall Bowles' laboratory at the Louisiana Universities Marine Consortium (LUMCON), \$5,000

2<sup>nd</sup> place award for best student talk at the University of Delaware Microbial Systems Symposium (February, 2018)

Delaware Environmental Institute (DENIN) Environmental Scholarship (November 2014-May, 2015), \$3,000

## TEACHING AND OUTREACH

Graduate Women in Science (GWIS) Philadelphia Chapter (April 2019-Present),  
Climate, Diversity, Equity and Inclusion (CDEIC) grad student representative (Fall 2020),

Teaching assistant for GEOL 125-Earth and Life through Time (Springs 2019 and 2020),  
introductory undergraduate course at the University of Pennsylvania

Teaching assistant for GEOL 103-Natural Disasters and Disturbances (Fall 2020),  
introductory undergraduate course at the University of Pennsylvania

## WORKSHOPS

ECOGEO-Intro to Environmental 'Omics Workshop (July, 2016), University of Hawai'i at  
Manoa, Honolulu, HI

## PRESENTATIONS

University of Pennsylvania Geobiology Symposium (March, 2020), Philadelphia, PA.

POSTER PRESENTATION: Uncool seafloor and subseafloor microbes: the isolation of thermophilic and hyperthermophilic H<sub>2</sub>-oxidizing, CO<sub>2</sub> reducers. Bousses, K., Choi, J., Rappé, M., & Pérez-Rodríguez.

University of Delaware Microbial Systems Symposium (February, 2018), Newark, DE.

ORAL PRESENTATION: Microbial succession in a sulfur-oxidizing mat. Bousses, K. & J.F. Biddle.

Ocean Sciences Meeting (February, 2018), Portland, OR.

POSTER PRESENTATION: The biological role associated with microbialite formation at Pavilion Lake, British Columbia. Bousses, K., Hawes, I., Lim, D.S.S., Andersen, D., Belan, M., Brady, A., Mackey, T. & J.F. Biddle.

DENIN Scholars Annual Symposium (May, 2015), Newark, DE.

POSTER PRESENTATION: Metagenomic investigations of the Costa Rican Margin. Bousses, K., León-Zayas, R.I. & J.F. Biddle

Ecological Society of America, Mid-Atlantic Chapter, Annual Conference (April, 2013),  
Dover, DE.

POSTER PRESENTATION: Investigating the seasonal dietary variation of big brown bats (*Eptesicus fuscus*) using DNA barcoding. Bousses, K., Sweitzer, L. & V. Balke.

## OTHER LANGUAGES

Greek

## PUBLICATIONS

Bousses, K., MacGregor, B., Teske, A., Christman G. & J.F. Biddle (*in preparation*) Insights into the diversity and function of large, filamentous sulfur bacteria from the family *Beggiatoaceae* through genomic and metagenomic techniques