

LISA SHU YANG COE

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EDUCATION

B.S. in Microbiology, University of Pittsburgh (2016-2020)

Minors in Chemistry and Studio Arts

Cumulative GPA: 3.752/4.000, *Summa Cum Laude*

RESEARCH POSITIONS

Research Technician, New York University Abu Dhabi (February 2021 – present)

Amin Lab, Biology Department

Undergraduate Researcher, University of Pittsburgh (February 2018 – March 2020)

Hainer Lab, Department of Biological Sciences

Summer Student Fellow, Woods Hole Oceanographic Institution (Summer 2019)

Van Mooy Lab, Department of Marine Chemistry & Geochemistry

PAPERS

Shibl, A.A., M.A. Ochsenkühn, A.R. Mohamed, **L.S.Y. Coe**, Y. Yun, and S.A. Amin. 2022. Molecular mechanisms of microbiome modulation by the diatom secondary metabolite azelaic acid (*in review*)

CONFERENCE PROCEEDINGS

(*presenting author)

Allegue, T.*, R. Rafay, S. Chandran, **L.S.Y. Coe**, S.A. Amin, S.J. Fowler, and J. Rodríguez. August 2022. Bacterial community structure involved in mixed culture carbohydrate fermentation at high substrate concentrations. ISME18, Lausanne, Switzerland. *Poster presentation.*

Allegue, T., S. Chandran, **L.S.Y. Coe**, S.A. Amin, and J. Rodríguez*. August 2022. Microbially-mediated nitrogen cycling in an integrated aquaculture and halo-agriculture system. ISME18, Lausanne, Switzerland. *Poster presentation.*

Shibl, A.A., M.A. Ochsenkühn, A.R. Mohamed, A. Isaac, **L.S.Y. Coe***, Y. Yun, and S.A. Amin. June 2022. Molecular mechanisms of microbiome modulation by the diatom secondary metabolite azelaic acid. ASM Microbe 2022, Washington D.C. *Poster presentation.*

Shibl, A.A., M.A. Ochsenkühn, A.R. Mohamed, **L.S.Y. Coe***, Y. Yun, and S.A. Amin. May 2022. Elucidating azelaic acid catabolism by the diatom symbiont *Phaeobacter* sp. F10. Marine Microbes Gordon Research Conference, Les Diablerets, Switzerland. *Poster presentation and flash talk.*

Coe, L.* & B.A.S. Van Mooy. February 2020. Phosphate may be fully reduced to phosphine gas in anoxic waters. Ocean Sciences Meeting, San Diego, California. *Poster presentation.*

Coe, L.* & B.A.S. Van Mooy. October 2019. Phosphate may be fully reduced to phosphine gas in anoxic waters. Science 2019, Pittsburgh, Pennsylvania. *Poster presentation.*

Coe, L.* & B.A.S. Van Mooy. August 2019. Phosphate may be fully reduced to phosphine gas in anoxic waters. WHOI Summer Student Research Symposium, Woods Hole, Massachusetts. *Poster presentation.*

Coe, L.* & B.A.S. Van Mooy. August 2019. The Hunt for Phosphine. WHOI Mid-Summer Student Presentations, Woods Hole, Massachusetts. *Oral presentation.*

Coe, L.*, D.C. Hendrickson, C. Troy, and S.J. Hainer. October 2018. Determining the roles of enhancer and promoter non-coding RNAs in embryonic stem cells. Science 2018, Pittsburgh, Pennsylvania. *Poster presentation.*

Coe, L.*, D.C. Hendrickson, C. Troy, and S.J. Hainer. August 2018. Determining the roles of enhancer and promoter non-coding RNAs in embryonic stem cells. Summer 2018 Undergraduate Research Symposium, Pittsburgh, Pennsylvania. *Poster presentation.*

HONORS AND AWARDS

2020 CSCAA Scholar All-America Honorable Mention

2020 Pitt Honors Travel Award

2020 OSM Student Travel Grant

2019 Woods Hole Oceanographic Institution Summer Student Fellowship (NSF REU)

2019 Chancellor's Undergraduate Teaching Fellowship

2018 HHMI Mentor/Mentee Summer Research Fellowship

2017 Summit Medical Group Foundation Next Generation Scholarship

Fall 2016 4.0 GPA Student-Athlete Award

Six-time Dean's List

Four-time ACC Academic Honor Roll

RELEVANT COURSEWORK

Microbial Physiology

Microbial Genetic Engineering

Biochemistry

Ecology

Virology Laboratory

Microbiology Laboratory & Writing Intensive

TEACHING & LEADERSHIP

Student-Athlete Representative

Diversity and Inclusion Committee, Pitt Athletics (Fall 2019 – Summer 2020)

Undergraduate Teaching Assistant

BIOSC 0150 Foundations of Biology I, University of Pittsburgh (Spring & Fall 2017, Spring 2019)

BIOSC 0350 Genetics, University of Pittsburgh (Fall 2019)

CHEM 0345 Organic Chemistry Laboratory, University of Pittsburgh (Fall 2018)

Peer Advisor

Department of Biological Sciences Advising (August 2018 – December 2019)

Special Positions Held: Events Programmer (Fall 2018) and Blog Editor (Spring 2019)

Assistant Diving Coach

Pitt Aquatic Club (January 2017 – August 2019)

Public Relations Co-Chair

Campus Women's Organization, University of Pittsburgh (Fall 2017 – Spring 2018)

SEATIME

R/V *Tioga*; Sampling methods cruise, 23 July 2019, Woods Hole Coast