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EDUCATION

UNIVERSITY OF CALIFORNIA, DAVIS

2013 – present

- PhD Candidate, Integrative Genetics & Genomics Graduate Group
- Dissertation: Taxonomic and functional diversity of the bacterial and fungal communities associated with the seagrass, *Zostera marina*
- Advisor: Dr. Jonathan Eisen

UNIVERSITY OF CALIFORNIA, BERKELEY

2009 - 2013

- B.A., Molecular & Cell Biology Genetics, Genomics & Development Emphasis
- Honors thesis: Genetic variation in abiotic tolerance and symbiotic quality among wild rhizobium bacteria
- Advisor: Dr. Ellen Simms

UNIVERSITY OF YORK, UNITED KINGDOM

2012

- Visiting Scholar, Biology & Archaeology Departments
- Research project: Investigation of the role of dopamine in Drosophila vision and its relation to Parkinson's disease
- Advisor: Dr. Christopher Elliot

PEER-REVIEWED PUBLICATIONS

Ettinger CL & Eisen JA. 2020. Fungi, bacteria and oomycota opportunistically isolated from the seagrass, *Zostera marina*. *PLoS One*. DOI: <u>10.1371/journal.pone.0236135</u>

Ettinger CL & Eisen JA. 2019. Characterization of the mycobiome of the seagrass, Zostera marina, reveals putative associations with marine chytrids. *Frontiers in Microbiology*. DOI: 10.3389/fmicb.2019.02476

Amend A, Burgaud G, Cunliffe M, Edgcomb VP, Ettinger CL, Gutiérrez MH, Heitman J, Hom E, Ianiri G, Jones A, Kagami M, Picard K, Quandt A, Raghukumar S, Riquelme M, Stajich JE, Vargas-Muñiz J, Walker AK, Yarden O & Gladfelter AS. 2019. Fungi in the marine environment: open questions and unsolved problems. *mBio*. DOI: 10.1128/mBio.01189-18

Wilkins LGE*, Ettinger CL*, Jospin G & Eisen JA. 2019. Metagenome-assembled genomes provide new insight into the microbial diversity of two thermal pools in Kamchatka, Russia. *Scientific Reports*. DOI: <u>10.1038/s41598-019-39576-6</u> *co-first authors

Ettinger CL, Wilkins LGE, Dahlhausen KE, Ghose SL, Oberbauer D, Eisen JA & Coil DA. 2018. Even superheroes need help sometimes: Three incredible tales of microbial symbiosis. *Frontiers for Young Minds*. DOI: 10.3389/frym.2018.00050

Brown EA, Dickinson PJ, Mansour T, Sturges B, Aguilar M, Young A, Korff C, Lind J, Ettinger CL, Varon S, Pollard R, Brown T, Raudespp T & Bannasch DL. 2017. *FGF4* retrogene on CFA 12 is responsible for chondrodystrophy and intervertebral disc disease in dogs. *PNAS*. DOI: 10.1073/pnas.1709082114

Ettinger CL, Williams SL, Abbott JM, Stachowicz JJ & Eisen JA. 2017. Microbiome succession during ammonification in eelgrass bed sediments. *PeerJ*. DOI: 10.7717/peerj.3674

Coil DA, Ettinger CL & Eisen JA. 2017. Gut Check: The evolution of an educational board game. *PLoS Biology* 15(4):e2001984. DOI: 10.1371/journal.pbio.2001984

Ettinger CL, Voerman SE, Lang JM, Stachowicz JJ & Eisen JA. 2017. Microbial communities in sediment from Zostera marina patches, but not the Z. marina leaf or root microbiomes, vary in relation to distance from patch edge. *PeerJ*. DOI: 10.7717/peerj.3246

Shehata HR, Ettinger CL, Eisen JA, & Raizada MN. 2016. Genes Required for the Antifungal Activity of a Bacterial Endophyte Isolated from a Corn Landrace Grown Continuously by Subsistence Farmers Since 1000 BC. Frontiers in Microbiology. DOI: 10.3389/fmicb.2016.01548

Mousa WK, Shearer, C, Limay-Rios, V, Ettinger CL, Eisen JA & Raizada MN. 2016. Roothair endophyte stacking in finger millet creates a physicochemical barrier to trap the fungal pathogen Fusarium graminearum. *Nature Microbiology*. DOI: 10.1038/nmicrobiol.2016.167

DATA PUBLICATIONS

Ettinger CL, Mousa WM, Raizada MN, Eisen JA. 2015. Draft genome sequence of Enterobacter sp. strain UCD-UG_FMILLET (phylum Proteobacteria). Genome Announcements. DOI: 10.1128/genomeA.01461-14

Ettinger CL, Shehata HR, Johnston-Monje D, Raizada MN, Eisen JA. 2015. Draft genome sequence of *Burkholderia gladioli* strain UCD-UG_CHAPALOTE (phylum *Proteobacteria*). *Genome Announcements*. DOI: <u>10.1128/genomeA.01462-14</u>

GRANTS & FELLOWSHIPS		
CENTER FOR POPULATION BIOLOGY (CPB) TRAVEL AWARD (\$800)	2020	
MICROBIOME GRADUATE RESEARCH AWARD (\$1000)	2019	
CPB RESEARCH AWARDS (\$5650)	2016 – 2019	
CPB COLLABORATIVE PROJECT RESEARCH AWARD (\$4000)	2018	
 Project: Unlocking the terrestrial realm: Are microbial symbioses the crab terrestrial invasions? 	e key to land	
 Co-PI: Victoria Morgan, PhD Candidate, Population Biology, UC Da 	vis	
SIGMA XI GRANT-IN-AID OF RESEARCH (\$1000)	2018	
H. A. LEWIN FAMILY FELLOWSHIP (\$2000)	2018	
JEFFERY AND MARSHA GIBELING FELLOWSHIP (\$1100)	2018	
CPB COLLABORATIVE PROJECT RESEARCH AWARD (\$4500)	2017	
 Project: Understanding belowground plant-microbe feedback loops during 		
competition between native and invasive plant species in a grassland ecosystem		
 Co-PI: Marina LaForgia, PhD Candidate, Ecology, UC Davis 		
NATURAL RESERVE SYSTEM RESEARCH GRANT (\$2000)	2016	
SANTA BARBARA SCHOLARSHIP FOUNDATION (\$23,814)	2009 – 2017	
 Tuition and stipend for four years at UC Berkeley and for four years at UC Davis 		
MARINE BIOLOGICAL LABORATORY (MBL) SCHOLARSHIP (\$6975)	2015	
 Tuition and room/board for the Microbial Diversity summer course 	at the MBL	
UNIVERSITY OF CALIFORNIA BLOCK GRANT	2014	
 Tuition and stipend for two quarters at UC Davis 		

TEACHING EXPERIENCE

TEACHING ASSISTANT

- Introduction to Biology: Biodiversity and the Tree of Life (BIS2C), UC Davis Spring 2015, Spring 2016, Summer 2016, Fall 2016, Winter 2017, Fall 2017, Fall 2018, Winter 2019, Fall 2019
- Complimentary class to BIS2C for underserved minority students (BIS98), UC Davis – Fall 2016
- Microbial Phylogenomics (EVE161), UC Davis Winter 2018, Winter 2020

ORGANIZER

- Marine Microbial Ecology Seminar (PBG 298 / ECL 290), UC Davis Winter 2019
- Environmental Surveys of Viruses Seminar (PBG 298), UC Davis Spring 2020

ACADEMIC SERVICE & AFFILIATIONS

UC Davis Data Science Initiative Graduate Affiliate

2017 – present

UC Davis Center for Population Biology Graduate Affiliate	2014 – present
Coastal & Marine Science Institute Grad Committee Co-chair	2015 – 2019
Integrative Genetics & Genomics Admissions Officer	2016 – 2018

ACHIEVEMENTS & HONORS

NSF GRFP Honorable Mention

2014

PROFESSIONAL MEMBERSHIPS

Association for Women in Science, American Society for Microbiology, National Center for Science Education, American Association for the Advancement of Science, The Oceanography Society, Society for the Study of Evolution, Mycological Society of America, Ecological Society of America

REVIEWER

Environmental Microbiology, mSystems, PLOS One, PeerJ, FEMS Microbiology Ecology, Marine Ecology Progress Series, Scientific Reports

ORAL PRESENTATIONS

Ettinger CL & Eisen JA. 2020. "The seagrass mycobiome: what happened to fungal associations as plants moved back into the marine environment?" contributed talk at the Ecological Society of America Annual Meeting, August 3–6, online.

Ettinger CL & Eisen JA. 2019. "The seagrass mycobiome: what happened to fungal associations as plants moved back into the marine environment?" invited talk at the California Academy of Sciences, April 11, in San Francisco, California.

Ettinger CL & Eisen JA. 2018. "The seagrass mycobiome: what happened to fungal associations as plants moved back into the marine environment?" invited talk at the 12th annual UC Davis Research Retreat on Host Microbe Interactions, October 19, in Tahoe City, CA

Ettinger CL, Porter SS & Simms EL. 2013. "Genetic variation in abiotic tolerance and symbiotic quality among wild rhizobium bacteria" a ten-minute talk at the UC Berkeley Molecular and Cell Biology Honors Research Symposium, April 24, in Berkeley, California.

POSTER PRESENTATIONS

Ettinger CL & Eisen JA. 2020. "Global characterization of the fungal community associated with the seagrass, *Zostera marina*" a graphical abstract presented at the Mycological Society of America Annual Meeting, July 22, online.

Ettinger CL & Eisen JA. 2018. "Characterization of the mycobiome of the seagrass, *Zostera marina*, across space and time" a poster presented at the Lake Arrowhead Microbial Genomics Conference, September 17, in Lake Arrowhead, California.

Ettinger CL, Lang JM, Voerman SE, Stachowicz JJ & Eisen JA. 2015. "The Seagrass Microbiome Project: Edge Effects and Seagrass Microbiome Diversity" a poster presented at the 115th General Meeting of the Amer. Soc. for Microbiology, June 1, in New Orleans, Louisiana.

Ettinger CL, Lang JM, Voerman SE, Stachowicz JJ & Eisen JA. 2015. "Edge Effects and Seagrass Microbiome Diversity" a poster presented at the Integrative Genetics and Genomics Graduate Group Colloquium, May 18, in Davis, California.

Ettinger CL, Lang JM, Voerman SE, Stachowicz JJ & Eisen JA. 2014. "Edge Effects and Seagrass Microbiome Diversity" a poster presented at the 20th Annual International Meeting on Microbial Genomics, September 15, in Lake Arrowhead, California.

Ettinger CL, Lang JM, Voerman SE, Eisen JA & Stachowicz JJ. 2014. "Edge Effects and Seagrass Microbiome Diversity" a poster presented at the Integrative Genetics and Genomics Graduate Group Colloquium, June 2, in Davis, California. Won "People's Choice".

PROFESSIONAL DEVELOPMENT & WORKSHOPS

NAIST INTERNATIONAL STUDENT WORKSHOP in Nara, Japan	November 2018	
MARINE FUNGI WORKSHOP at the MBL	May 2018	
ANVIO WORKSHOP at the Joint Genome Institute	September 2017	
SCIENCE COMMUNICATION WORKSHOP at UC Davis	April 2017	
EARLY CAREER OCEAN SUMMIT in Waikoloa, HI	January 2017	
BAYESIAN STATISTICAL PHYLOGENETICS USING REVBAYES at	UC Davis July 2016	
MICROBIAL DIVERSITY COURSE at the MBL	July – August 2015	
EXPLORATIONS IN DATA ANALYSES FOR METAGENOMIC ADVANCES IN		
MICROBIAL ECOLOGY (EDAMAME) COURSE at MSU	August 2014	
SOFTWARE CARPENTRY WORKSHOP at UC Davis	June 2014	

VOLUNTEER & OUTREACH EXPERIENCE

NATIONAL SUMMER UNDERGRADUATE RESEARCH PROJECT (NSURP)

2020

• *Mentor:* Supervised BIPOC undergraduate students on remote summer research opportunities; Organized internal seminar series on literature review topics

EXPANDING YOUR HORIZONS

2013 - 2019

Workshop Leader: Introduced 6th – 9th grade girls to STEM careers at UC
 Berkeley EYH; Led a yearly bioinformatics workshop "Genome Detectives"

LETTERS TO A PRE-SCIENTIST

2017 - 2018

• Volunteer: Exchanged letters with a pen pal about science careers

DAVIS SCIENCE COLLECTIVE

2014 - 2016

 Volunteer: Promoted science through the Davis Public Library; Helped 5th graders with science fair project ideas and experiential designs

ADVISEES

Undergraduate Students:

- Leah Spalding (July 2020 present) *via NSURP
- Donito Burgess (June 2020 present) *via NSURP
- Jordan Brayn (June 2020 present) *via NSURP
- Neil Brahmbhatt (January 2018 June 2020)
- Jolie Lobrutto* (September 2018 June 2019) *co-advised with Lena Capece
- Katelin Jones (June 2018 September 2018)
- Tess McDaniel (June 2018 September 2018)
- Hannah Kang* (September 2017 June 2018) *co-advised with Marina LaForgia
- Katie Somers (September 2017 June 2018)

High Schools Students:

• Henna Hundal, Young Scholars Program (June 2014 – August 2014)

SKILLS & INTERESTS

COMPUTER SKILLS: Coding and data analysis in Python and R. Basic knowledge of UNIX and HTML/CSS. Proficient in 16S, ITS and 18S amplicon analysis. Experience with microbial metagenome assembly, annotation and binning.

INTERESTS: photography, theatre, reading, baking, knitting, mountain biking, paddle boarding, rock climbing, backpacking, skiing, graphic design, science communication