Jenna T. B. Ekwealor CURRICULUM VITAE

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EDUCATION

Ph.D. Candidate

Department of Integrative Biology, Brent Mishler Lab University of California, Berkeley (UCB) Present

M.S. – Environmental Science – Environmental Biology

Thesis: "Sex or survival? The genetic impacts of environment and energetic trade-offs for the Mojave Desert moss *Syntrichia caninervis* (Pottiaceae)" California State University, Los Angeles (CSULA) 2015

B.S. – Biology, Chemistry Minor

Purdue University, Indiana University—Purdue University—Indianapolis (IUPUI) 2012

B.A. – Religious Studies

Indiana University, IUPUI 2012

RESEARCH AND PROFESSIONAL EXPERIENCE

2015-2020 PhD Research, UCB

Project: Investigating transcriptomics, biochemistry, and evolutionary history of UV-tolerance in desert mosses

2018-2019 Graduate Student Researcher, UCB

2015-2016 Graduate Student Instructor, UCB

2014-2015 Teaching Assistant, CSULA

2009-2012 Research Intern, Orthopaedic Laboratories, Indiana University School of Medicine (IUSM)

PUBLICATIONS

- 1. **Ekwealor, Jenna T. B.**; Fisher, Kirsten M. A distinct bryophyte microhabitat: Hypolithic mosses in the Mojave Desert. (In prep).
- Baughman, Jenna T.; Payton, Adam C.; Paasch, Amber E.; Fisher, Kirsten M.; McDaniel, Stuart F. Multiple factors influence population sex ratios in the Mojave Desert moss *Syntrichia caninervis*.
 American Journal of Botany 104(5):1-10 (2017), DOI: 10.3732/ajb.1700045
- 3. Meijome, Tomás E.*; **Baughman, Jenna T.***; Hooker, R. Adam; Cheng, Ying-Hua; Ciovacco, Wendy A.; Balamohan, Sanjeev A.; Srinivasan, Trishya L.; Chitteti, Brahmananda R.; Eleniste, Pierre P.; Horowitz, Mark C.; Srour, Edward F.; Bruzzaniti, Angela; Fuchs, Robyn K.; Kacena, Melissa A. C-Mpl is expressed on osteoblasts and osteoclasts and is important in regulating skeletal homeostasis. *Journal of Cellular Biochemistry* 117:959-969 (2016), DOI: 10.1002/jcb.25380 *Contributed equally

4. Eleniste, Pierre P.; Patel, Vruti; Posritong, Sumana; Zero, Odette; Largura, Heather; Cheng, Ying-Hua; Himes, Evan R.; Hamilton, Matthew; **Baughman, Jenna**; Kacena, Melissa A.; Bruzzaniti, Angela. Pyk2 and megakaryocytes regulate osteoblast differentiation and migration via distinct and overlapping mechanisms. *Journal of Cellular Biochemistry* 9999:1-11 (2015), DOI: 10.1002/jcb.25430

FUNDING

Current UC Berkeley Department of Integrative Biology Summer Grant \$3,500	2019
UC Natural Reserve System Mathias Graduate Student Research Grant \$2,000	2018-2019
Luso-American Education Foundation Scholarship \$1,000	2018-2019
Pinto-Fialon Fellowship, UCB \$8,000	2018-2019
American Bryological and Lichenological Society Anderson & Crum Field Bryology Research Award	2017

Contributions to ongoing funded research

NSF Division of Environmental Biology #163856

Title: Collaborative Research: Dimensions: Desiccation and Diversity in Dryland Mosses

PI: Brent Mishler, UCB Role: Contributed data

Previous

\$750

American Bryological and Lichenological Society Annual Meeting Travel Award \$400	2019
Pinto-Fialon Fellowship, UCB \$7,735	2017-2018
American Bryological and Lichenological Society Annual Meeting Travel Award \$600	2018, 2016
Integrative Biology Summer Research Award (UCB) \$1,750	2018, 2017

California Botanical Society	2017	
Graduate Student Symposium Travel Award		
\$200		
Berkeley Fellowship, UCB	2016-2018	
Graduate Student Research Allocations Committee Research Award	2016-2017	
Integrative Biology Graduate Student Research Funds (UCB)		
\$300		
Conducts Student Describ Allertine Committee Describ Assessed	2015 2017	
Graduate Student Research Allocations Committee Research Award Integrative Riology Craduate Student Research Funds (IICR)	2015-2016	
Integrative Biology Graduate Student Research Funds (UCB) \$300		
Ψ300		
Graduate Student Research Allocations Committee Research Award	2015-2016	
Integrative Biology Graduate Student Conference Travel Funds (UCB)		
\$250		
NSF Research Coordination Network, Evo-Devo-Eco Network	2014	
Research Exchange Grant		
Title: Sex or survival? The genetic impacts of environment and energetic trade-offs for the Mojave		
Desert moss Syntrichia caninervis (Pottiaceae)		
\$3,000		

HONORS & AWARDS

- Luso-American Education Foundation (2018-2019)
- Berkeley Fellowship, UCB (2016-2018)
- Pinto-Fialon Fellowship, UCB (2017-2018, 2018-2019)
- NSF National Research Traineeship, Environment and Society: Data Sciences for the 21st Century, UCB (2015-2017)
- Outstanding Graduate Student Instructor, UCB (2016)
- Minority Biomedical Research Support (MBRS) Research Initiative for Scientific Enhancement (RISE), MS-to-Ph.D. Graduate Research Fellowship, CSULA (2014-2015)
- Tutor of the Month, Tutor Doctor of San Gabriel Valley (2013)
- Rowland A. Sherrill Outstanding Religious Studies Student Award, Department of Religious Studies, IUPUI (2012)
- Christine Jakacky Mentor of the Year, IUPUI (2012)
- 13th Annual IUPUI Top 100 Outstanding Students, IUPUI (2012)
- Ronald E. McNair Post-Baccalaureate Achievement Scholar, IUPUI (2009-2012)
- 12th Annual IUPUI Top 100 Outstanding Students, IUPUI (2011)

SELECTED PRESENTATIONS

Oral Presentations

Biocrust4 North Stradbroke Island, AUS, 2019

"UV Tolerance in Mojave Desert Mosses"

Botany 2019 Tucson, AZ, USA, 2019

"UV Tolerance in Mojave Desert Mosses" Honorable Mention for A. J. Sharp Award Awarded ABLS Travel Award

Bryology 2019 Tucson, AZ, USA, 2019

"UV Tolerance in Mojave Desert Mosses"

American Bryological and Lichenological Society Conference Nederland, CO, USA, 2018

"UV Tolerance in Mojave Desert Mosses"

Awarded ABLS Student Travel Award

California Botanical Society Graduate Symposium 2017 Santa Barbara, CA, USA, 2017

"Adaptation, facilitation, and refugia in Mojave Desert mosses"

Awarded Cal. Bot. Soc. Travel Award

Biocrust3 Moab, UT, USA, 2016

Early Career Scientists Symposium

"Natural desert terraria: Characterization of hypolithic Mojave Desert moss community" Awarded Biocrust3 Complimentary Registration Award

Biocrust3 Moab, UT, USA, 2016

Molecular Frontiers Symposium

"Males of the Mojave Desert moss *Syntrichia caninervis* (Pottiaceae) are rare and shy" *Awarded Biocrust3 Complimentary Registration Award*

Botany 2016 Savannah, GA, USA, 2016

"Natural desert terraria: Characterization of hypolithic Mojave Desert moss community" Awarded ABLS Travel Award

Botany 2016 Savannah, GA, USA, 2016

"Males of the Mojave Desert moss $Syntrichia\ caninervis\ (Pottiaceae)$ are rare and shy"

Awarded ABLS Travel Award

California Botanical Society Graduate Symposium 2017 Claremont, CA, USA, 2015

"Natural desert terraria: Characterization of hypolithic Mojave Desert moss community"

Awarded 1st Place, Completed Research Category

Poster Presentations

International Molecular Moss Society (iMOSS) Meeting 2018

St. Petersburg, FL, USA,

"UV Tolerance in Mojave Desert Soil Mosses"

Awarded 1st Place Student Posters

Awarded iMOSS Trainee Fellowship

California Native Plant Society Conservation Conference San Jose, CA, USA, 2015 "Natural desert terraria: Characterization of hypolithic Mojave Desert moss community"

Awarded 1st Place Student Posters

SYNERGISTIC ACTIVITIES

- Reviewer for Plant and Soil, American Journal of Botany, Annals of Botany, Plant Biology, and The Bryologist.
- Social Media Chair, California Native Plant Society, Bryophyte Chapter
- Student Representative, International Molecular Moss Science Society
- Graduate Student Member, Curriculum Faculty Committee, Department of Integrative Biology, UC Berkeley
- Graduate Student Member, Diversity Faculty Committee, Department of Integrative Biology, UC Berkeley
- Graduate Student Orientation Planning Committee member, Department of Integrative Biology, UC Berkeley
- Women in Science at Cal Planning Committee member, UC Berkeley

UNDERGRADUATE & HIGH SCHOOL STUDENTS MENTORED

José Adame Medina	2019
Dean Berkowitz, Mishler Lab, UCB	2018-2019
Jordan Jomsky, Mishler Lab, UCB	2018-2019
Shloka Reddy, Mishler Lab, UCB	2018
Angela Sacramento, Mishler Lab, Oakland Technical High School	2018
Heloise Carion, Mishler Lab, UCB	2017-2018
Easha Sagar, Mishler Lab, UCB	2017-2018
Brittanie Rodriguez, Fisher Lab, CSULA	2015
Katelyn Millette, Fisher Lab, CSULA	2014

VOLUNTEER & OUTREACH

•	Supervisory Scientist—Mission Mojave, Blueprint Earth	2019
•	Interview Day, Panel Member, "Life as an IB Graduate Student," UCB	2016, 2017, 2018
•	Cal Day: Bryophyte Station, University & Jepson Herbaria, UCB	2018
•	Cal Day: Bryophytes & Ferns Station, University & Jepson Herbaria, UCB	2016
•	"Be a Scientist" Mentor, Community Resources for Science	2016
•	Logistics Volunteer, Expanding Your Horizons Conference	2016
•	Field Researcher—Mission Mojave, Blueprint Earth	2014, 2015
•	Naturalist: Marine Mammals, Indianapolis Zoo	2012
•	Advanced Canine Companion, Humane Society of Indianapolis	2012
•	Youth Mentor "Big Sister," Big Brothers Big Sisters of Central Indiana	2010-2011

PROFESSIONAL ASSOCIATIONS

California Native Plant Society – Bryophyte Chapter – Social Media Chair

International Molecular Moss Society (iMOSS) – Student/Postdoc Representative

American Bryological and Lichenological Society

Botanical Society of America

TEACHING

Graduate Student Instructor, UCB

2019

Course: IB 157LF, Ecosystems of California

Responsibilities: Assisted on weekly day trips and 5 weekend field trips. Conducted and graded field quizzes.

Expanding Your Horizons Conference, UCB

2019

Course: Biocrusts: The Living Skin of the Earth

Responsibilities: Conducted a STEM workshop for middle-school girls.

Software Carpentry Workshop Helper, UCB

2019

Course: Introduction to R, Git, Shell, and Reproducible Analysis in R *Responsibilities:* Helped learners with software installation and analyses.

Teaching Conference for First-Time Graduate Student Instructors, UCB

2018

Course: Biological Sciences Discipline-Cluster Workshop

Responsibilities: Developed and taught a workshop for first-time UCB Graduate Student Instructors to prepare them for their first class.

Data Carpentry Workshop Helper, UCB

2018

Course: Introduction to Shell, Git, and R

Responsibilities: Helped learners with software installation and analyses.

Data Carpentry Workshop Helper, UCB

2018

Course: Introduction to Genomics Data Wrangling

Responsibilities: Helped learners with installation and coding.

Graduate Student Instructor, UCB

2015, 2016

Course: BIO 1B, Introductory Biology Laboratory

Responsibilities: Prepared and co-taught weekly 3-hour laboratories for sections of 30 freshman-level undergraduates. Held weekly office hours. Graded quizzes, assignments, and lab exams.

*2015-2016 Outstanding Graduate Student Instructor Award

Graduate Teaching Assistant, CSULA

2014, 2015

Course: BIOL 360, Ecology Laboratory

Responsibilities: Prepared and taught weekly 3-hour laboratories for sections of 30 junior- and senior-level undergraduates. Held weekly office hours. Graded quizzes, assignments, and lab exams.

Graduate Teaching Assistant, CSULA

2014

Course: BIOL 156, Plant Biology Laboratory for Non-Majors

Responsibilities: Prepared and taught weekly 3-hour laboratories for sections of 30 undergraduates from any level. Held weekly office hours. Graded quizzes, assignments, and lab exams.

Peer-Led Team Learning, Program Coordinator, IUPUI

2009-2012

Course: CHEM-C496, Methods in Teaching Chemistry

Responsibilities: Prepared and co-taught weekly 2-hour classes for sections of 30 undergraduates from any level. Held weekly office hours and graded assignments. Also included administrative responsibilities to organize and run the IUPUI Chemistry Peer-Led Team Learning program. Prepared scholarship authorizations, room reservations, interviewed and hired peer mentors, and helped existing mentors with course content and pedagogical development.

Workshop Leader, Peer-Led Team Learning, IUPUI

2008-2012

Course: CHEM-C105, General Chemistry I Recitation

Responsibilities: Prepared and taught weekly 2-hour classes for sections of 10 freshman-level undergraduates. Wrote and graded quizzes.

Recitation Mentor, Bepko Learning Center, IUPUI

2009

Course: BIOL-K103, Concepts of Biology II Recitation

Responsibilities: Prepared and taught weekly 1.5-hour classes for sections of 15-30 freshman-level undergraduates. Wrote and graded quizzes.

LANGUAGES

English — Native Spanish — Intermediate

Portuguese – Intermediate