# Jenna T. B. Ekwealor

### **CURRICULUM VITAE**

1001 Valley Life Sciences Bldg. #2465, Berkeley, CA 94720 | 219-393-0179 | jtbe@berkeley.edu

#### **EDUCATION**

2015-Present	Ph.D. Student Department of Integrative Biology University of California, Berkeley (UCB) Laboratory of Dr. Brent Mishler
2015	M.S. in Environmental Science, Biology Option California State University, Los Angeles (CSULA) Laboratory of Dr. Kirsten Fisher
2012	B.S. in Biology, Minor in Chemistry Purdue University, Indiana University—Purdue University—Indianapolis (IUPUI) Laboratory of Dr. Melissa Kacena
2012	B.A. in Religious Studies Indiana University, IUPUI

#### **PUBLICATIONS** [ORCID 0000-0001-9014-8786]

- 4. **Ekwealor, Jenna T. B.**; Fisher, Kirsten M. Life under quartz: Hypolithic mosses in the Mojave Desert. (In review).
- 3. **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
- 2. 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
- 1. 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

#### **FELLOWSHIPS & TRAINEESHIPS**

2015-2020	Berkeley Fellowship (UCB) (\$86,000 awarded over five years)
2017-2020	Pinto-Fialon Fellowship (UCB) (\$25.735 awarded over three years)

JENNA T. B. EKWEALOF	R, CURRICULUM VITAE	PAGE 2 OF 7
2018-2019	Luso-American Education Foundation Scholarship (\$1,000)	
2015-2017	Environment & Society: Data Sciences for the 21st Century, A	An NSF Research Traineeship (UCB)
2014-2015	Minority Biomedical Research Support Research Initiative for Graduate Research Fellowship (CSULA) (\$17,000)	r Scientific Enhancement MS-to-Ph.D.

# **HONORS & AWARDS**

2019-2012

2016	Outstanding Graduate Student Instructor, UCB
2013	Tutor of the Month, Tutor Doctor of San Gabriel Valley
2012	Rowland A. Sherrill Outstanding Religious Studies Student Award, IUPUI
2012	Christine Jakacky Mentor of the Year, IUPUI
2012	13th Annual IUPUI Top 100 Outstanding Students, IUPUI
2011	12th Annual IUPUI Top 100 Outstanding Students, IUPUI

Ronald E. McNair Post-Baccalaureate Achievement Scholar (IUPUI)

# **RESEARCH GRANTS**

Current	
2019	Department of Integrative Biology Summer Grant (UCB) (\$3,500)
2019	California Native Plant Society — Bryophyte Chapter Research Grant (\$200)
2019	Sigma Xi Berkeley Chapter Grants-in-Aid-of-Research (UCB) (\$200)
2018	Mathias Graduate Student Research Grant (UC Natural Reserve System) (\$2,000)
Contribution	s to ongoing funded research
2016-2019	NSF Division of Environmental Biology #163856
	Title: Collaborative Research: Dimensions: Desiccation and Diversity in Dryland Mosses PI: Brent Mishler, UCB
<b>Previous</b>	
2017	Anderson & Crum Field Bryology Award (American Bryological and Lichenological Society) (\$750)
2018	Department of Integrative Biology Summer Research Award (UCB) (\$1,750)
2017	Department of Integrative Biology Summer Research Award (UCB) (\$1,750)

### JENNA T. B. EKWEALOR, CURRICULUM VITAE

PAGE 3 OF 7

2016-2019 Department of Integrative Biology Graduate Student Research Allocations Committee Research

Award (UCB)

(\$1,200 over four years)

2014 Evo-Devo-Eco Research Exchange Network Grant (NSF Research Coordination Network)

(\$3,000)

### **CONFERENCE PRESENTATIONS**

Oral Preser	ntations
2019	Biocrust4, North Stradbroke Island, Australia "UV Tolerance in Mojave Desert Mosses"
2019	Botany 2019, Tucson, AZ, USA "UV Tolerance in Mojave Desert Mosses"  Honorable Mention for A. J. Sharp Award  ABLS Student Travel Award (\$400)
2019	Bryology 2019, Madrid, Spain "UV Tolerance in Mojave Desert Mosses"  UCB Dept. of Integrative Biology Graduate Student Research Allocations Committee Travel Award (\$250)
2018	American Bryological and Lichenological Society Meeting, Nederland, CO, USA "UV Tolerance in Mojave Desert Mosses"  ABLS Student Travel Award (\$600)
2017	California Botanical Society Graduate Symposium, Santa Barbara, CA, USA "Adaptation, facilitation, and refugia in Mojave Desert mosses" California Botanical Society Travel Award (\$200)
2016	Biocrust3, Moab, UT, USA Molecular Frontiers Symposium "Males of the Mojave Desert moss Syntrichia caninervis (Pottiaceae) are rare and shy" Biocrust3 Complimentary Registration Award
2016	Biocrust3, Moab, UT, USA Early Career Scientists Symposium "Natural desert terraria: Characterization of hypolithic Mojave Desert moss community" Biocrust3 Complimentary Registration Award
2016	Botany 2016, Savannah, GA, USA "Natural desert terraria: Characterization of hypolithic Mojave Desert moss community" ABLS Student Travel Award (\$600)
2016	Botany 2016, Savannah, GA, USA "Males of the Mojave Desert moss Syntrichia caninervis (Pottiaceae) are rare and shy" UCB Dept. of Integrative Biology Graduate Student Research Allocations Committee Travel Award (\$250)
2015	California Botanical Society Graduate Symposium, Claremont, CA, USA "Natural desert terraria: Characterization of hypolithic Mojave Desert moss community"

Best Presentation Award, Completed Research Category

#### **Poster Presentations**

2018 International Molecular Moss Science Society Meeting, St. Petersburg, FL, USA

"UV Tolerance in Mojave Desert Soil Mosses"

Best Student Poster Award

iMOSS Trainee Fellowship Award

2015 California Native Plant Society Conservation Conference, San Jose, CA, USA

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

Best Student Poster Award

#### **DEPARTMENTAL TALKS**

2020	Botany Lunch, University & Jepson Herbaria, UCB "The photosynthetic effects of the Mojave Desert sun on a biological soil crust moss"
2019	Guest Lecture, Ecosystems of California, UCB "Evolution of Energetic Trade-Offs in Plant Herbivory Defense"
2019	Guest Lecture, Plant Systematics, UCB "Introduction to Bryophytes"
2018	Grad Students on Parade Lightning Talk, Botany Lunch, University & Jepson Herbaria, UCB "Volunteer botanizing in the Mojave National Preserve"
2016	Botany Lunch, University & Jepson Herbaria, UCB "Sex and survival: The impacts of energetic trade-offs for the Mojave Desert moss <i>Syntrichia caninervis</i> (Pottiaceae)"
2015	MORE & LSAMP Seminar, CSULA "Sex and survival: The impacts of energetic trade-offs for the Mojave Desert moss <i>Syntrichia caninervis</i> (Pottiaceae)"

#### **TEACHING**

#### **Teaching Appointments**

2019-2020 Graduate Student Instructor, UCB 2015-2016 Graduate Student Instructor, UCB

2014-2015 Teaching Assistant, CSULA

2009-2012 Undergraduate Student Instructor, IUPUI

2008-2012 Recitation Leader, IUPUI

### **Undergraduate Courses**

Introduction to California Plant Life (Field Course), UCB	2020
Ecosystems of California (Field Course), UCB	2019
Introductory Biology Laboratory, UCB	2015, 2016
Ecology Laboratory, CSULA	2014, 2015
Plant Biology Laboratory for Non-Majors, CSULA	2014
Peer-Led Team Learning Methods in Teaching Chemistry, IUPUI	2009-2012
General Chemistry I Peer-Led Team Learning Recitation, IUPUI	2008-2012

JENNA T. B. EKWEALOR, CURRICULUM VITAE	
Concepts of Biology II Recitation, IUPUI	2009
Workshops	
Biocrusts: The Living Skin of the Earth, Expanding Your Horizons Girls' Conference, UCB	2019
Introduction to R, Git, Shell, and Reproducible Analysis in R, Software Carpentry, UCB	2019
Biological Sciences Discipline Workshop, Teaching Conference for First-Time GSIs, UCB	2018
Introduction to Shell, Git, and R, Data Carpentry, UCB	2018
Introduction to Genomics Data Wrangling, Data Carpentry UCB	2018

# RESEARCH EXPERIENCE

2015-Present	Graduate Student Researcher  Department of Integrative Biology  Haironia of California Budalan
	University of California, Berkeley
	Laboratory of Dr. Brent Mishler
	The evolution and eco-physiology of UV tolerance in dryland mosses
2018-2019	Graduate Student Researcher
	Department of Integrative Biology
	University of California, Berkeley
	Laboratory of Dr. Brent Mishler
	The 3DMoss Project: Desiccation and Diversity in Dryland Mosses
2016	Graduate Student Researcher
	Department of Geography
	University of California, Berkeley
	Laboratory of Dr. Laurel Larsen
	Analysis of landscape features from RASCAL, a model of Florida everglades landscape evolution
2013-2015	Graduate Student Researcher
	Department of Integrative Biology
	University of California, Berkeley
	Laboratory of Dr. Kirsten Fisher
	Sex or survival? The genetic impacts of environment and energetic trade-offs for the Mojave Desert moss
	Syntrichia caninervis (Pottiaceae)
2009-2012	Life Health Sciences Internship
	Orthopaedic Laboratories
	Indiana University School of Medicine
	Laboratory of Dr. Melissa Kacena
	Characterization of C-Mpl and Pyk2 in skeletal growth and development and in bone-blood interactions
2011	Multidisciplinary Undergraduate Research Institute
	Departments of Earth Sciences & Department of Anthropology
	Indiana University—Purdue University—Indianapolis
	Laboratories of Dr. Gabriel Filippelli & Dr. Jeremy J. Wilson

site as a marker for landscape use change

 $Analysis\ of\ the\ ratio\ of\ carbon\ to\ nitrogen\ from\ soil\ cores\ in\ a\ Mississippian\ era\ Native\ American\ civilization$ 

2018

### I. Community

- Peer reviewer: 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

# II. University

- Curriculum Faculty Committee, Department of Integrative Biology, UCB, 2018-2019
- Diversity Faculty Committee, Department of Integrative Biology, UCB, 2018-2019
- Graduate Student Orientation Committee, Department of Integrative Biology, UCB, 2018-2019
- Women in Science at Cal, Student Organization Planning Committee, UCB, 2016-2019

#### **MENTORSHIP**

Undergrad	luate Stud	lents
-----------	------------	-------

Dean Berkowitz, Mishler Lab, UCB	2018-2019
Jordan Jomsky, Mishler Lab, UCB	2018-2019
Shloka Reddy, Mishler Lab, UCB	
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
High School Students	
José Adame Medina, Mishler Lab, Berkeley High School	2019

Angela Sacramento, Mishler Lab, Oakland Technical High School

# **OUTREACH**

## I. Media & Print

Cal BioSciences Annual Newsletter, article here 2019

### **II. Activities & Presentations**

Networking Guest, Success Suits You! Biotech Partners, Berkeley High	h School 2020
Supervisory Scientist, Mission Mojave, Blueprint Earth	2019
Cal Day, Bryophyte Station, University & Jepson Herbaria, UCB	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
Youth Mentor "Big Sister," Big Brothers Big Sisters of Central Indiana	2010-2011

### JENNA T. B. EKWEALOR, CURRICULUM VITAE

PAGE 7 OF 7

California Native Plant Society, International Molecular Moss Society (iMOSS), American Bryological and Lichenological Society, Botanical Society of America, California Botanical Society

### **CODE**

github.com/jenna-tb-ekwealor

### **SKILLS**

Proficiency in R, Bash, Matlab, Git, & HTML. Experience programming in Python, Perl, & Java. Proficiency in bryophyte microscopy work (dissection, sectioning, and creating permanent slides).

### **LANGUAGES**

English (native), Spanish (limited working proficiency), Portuguese (limited working proficiency)