

Jenna T. B. Ekwealor

CURRICULUM VITAE

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

EDUCATION

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| 2015-Present | Ph.D. Candidate
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 |
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PUBLICATIONS

4. **Ekwealor, Jenna T. B.**; Fisher, Kirsten M. A distinct bryophyte microhabitat: Hypolithic mosses in the Mojave Desert. (In prep).
 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.; Srouf, 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
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FELLOWSHIPS & TRAINEESHIPS

2015-2020	Berkeley Fellowship (UCB) (\$86,000 awarded over five years)
2017-2020	Pinto-Fialon Fellowship (UCB) (\$15,735 awarded over two years)
2018-2019	Luso-American Education Foundation Scholarship (\$1,000)
2015-2017	Environment & Society: Data Sciences for the 21st Century, An NSF Research Traineeship (UCB)
2014-2015	Minority Biomedical Research Support Research Initiative for Scientific Enhancement MS-to-Ph.D. Graduate Research Fellowship (CSULA) (\$17,000)
2019-2012	Ronald E. McNair Post-Baccalaureate Achievement Scholar (IUPUI)

HONORS & AWARDS

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	13 th Annual IUPUI Top 100 Outstanding Students, IUPUI
2011	12 th Annual IUPUI Top 100 Outstanding Students, IUPUI

RESEARCH GRANTS

Current

2019	Department of Integrative Biology Summer Grant (UCB) (\$3,500)
2018	Mathias Graduate Student Research Grant (UC Natural Reserve System) (\$2,000)

Contributions 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 Role: Contributed data
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Previous

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)
2016-2019	Department of Integrative Biology Graduate Student Research Allocations Committee Research Award (UCB) (\$1,200 over four years)
2014	Evo-Devo-Eco Resarch Exchange Network Grant (NSF Research Coordination Network) (\$3,000)

CONFERENCE PRESENTATIONS

Oral Presentations

2019	Biocrust4, North Stradbroke Island, Australia “UV Tolerance in Mojave Desert Mosses”
2019	Botany 2019, Tucson, AZ, USA “UV Tolerance in Mojave Desert Mosses” <i>Honorable Mention for A. J. Sharp Award</i> <i>Awarded ABLS Student Travel Award (\$400)</i>
2019	Bryology 2019, Madrid, Spain “UV Tolerance in Mojave Desert Mosses” <i>Awarded UCB Dept. of Integrative Biology Graduate Student Research Allocations Committee Travel Award (\$250)</i>
2018	American Bryological and Lichenological Society Meeting, Nederland, CO, USA “UV Tolerance in Mojave Desert Mosses” <i>Awarded ABLS Student Travel Award (\$600)</i>
2017	California Botanical Society Graduate Symposium, Santa Barbara, CA, USA “Adaptation, facilitation, and refugia in Mojave Desert mosses” <i>Awarded Cal. Bot. Soc. Travel Award (\$200)</i>
2016	Biocrust3, Moab, UT, USA Molecular Frontiers Symposium “Males of the Mojave Desert moss <i>Syntrichia caninervis</i> (Pottiaceae) are rare and shy”

Awarded Biocrust3 Complimentary Registration Award

- 2016 Biocrust3, Moab, UT, USA
Early Career Scientists Symposium
“Natural desert terraria: Characterization of hypolithic Mojave Desert moss community”
Awarded Biocrust3 Complimentary Registration Award
- 2016 Botany 2016, Savannah, GA, USA
“Natural desert terraria: Characterization of hypolithic Mojave Desert moss community”
Awarded ABLS Student Travel Award (\$600)
- 2016 Botany 2016, Savannah, GA, USA
“Males of the Mojave Desert moss *Syntrichia caninervis* (Pottiaceae) are rare and shy”
Awarded 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”
Awarded 1st Place, Completed Research Category

Poster Presentations

- 2018 International Molecular Moss Science Society Meeting, St. Petersburg, FL, USA
“UV Tolerance in Mojave Desert Soil Mosses”
Awarded 1st Place Student Posters
Awarded iMOSS Trainee Fellowship
- 2015 California Native Plant Society Conservation Conference, San Jose, CA, USA
“Natural desert terraria: Characterization of hypolithic Mojave Desert moss community”
Awarded 1st Place Student Posters

DEPARTMENTAL TALKS

- 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 *Syntrichia caninervis* (Pottiaceae)”
- 2015 MORE & LSAMP Semina, CSULA
 “Sex and survival: The impacts of energetic trade-offs for the Mojave Desert moss *Syntrichia caninervis* (Pottiaceae)”
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TEACHING EXPERIENCE

Teaching Appointments

- 2015-2016 Graduate Student Instructor, UCB
 2014-2015 Teaching Assistant, CSULA
 2009-2012 Undergraduate Student Instructor, IUPUI
 2008-2012 Recitation Leader, IUPUI

Undergraduate Courses

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| 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 |
| Concepts of Biology II Recitation, IUPUI | 2009 |

Workshops

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| 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 |
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RESEARCH EXPERIENCE

- 2015-Present **Graduate Student Researcher**
 Department of Integrative Biology
 University of California, Berkeley
 Laboratory of Dr. Brent Mishler
The evolution and eco-physiology of UV tolerance 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
Analysis of the ratio of carbon to nitrogen from soil cores in a Mississippian era Native American civilization site as a marker for landscape use change
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ACADEMIC SERVICE

- 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
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DEPARTMENTAL SERVICE

- 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
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EXTRACURRICULAR UNIVERSITY SERVICE

- Women in Science at Cal, Student Organization Planning Committee, UCB, 2016-2019
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MENTORSHIP

Undergraduate Students

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	2018

EXTRACURRICULAR & VOLUNTEER EXPERIENCE

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 AFFILIATIONS

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

LANGUAGES

English – Native
 Spanish – Intermediate
 Portuguese – Intermediate