

Erika R. Moore-Pollard, PhD (she/her)

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EDUCATION

- University of Memphis (UofM)** – Department of Biological Sciences 2018 – 2023
Ph.D., Evolution of the genus *Packera* (Asteraceae)
Advisor: Dr. Jennifer Mandel
- University of Tennessee, Knoxville** 2014 – 2018
B.S., Ecology and Evolutionary Biology

RESEARCH INTERESTS

biogeography; bioinformatics; climate change; conservation; evolution; genomics; herbaria; phylogenomics; plant genetics; polyploidy; population genetics; probe design; systematics

RESEARCH EXPERIENCE & ACADEMIC POSITIONS

- Post-Doctoral Researcher 2024
PI: Jennifer Mandel, University of Memphis
- Graduate Research Assistant 2023
PI: Jennifer Mandel, University of Memphis
NSF IOS – 2214472
- Graduate Teaching Assistant 2018 – 2022
University of Memphis
- Lab Manager and Research Assistant 2018
Susan Kalisz Lab, University of Tennessee, Knoxville
- Independent Research Project 2017 – 2018
Joe Bailey Lab, University of Tennessee, Knoxville
- Undergraduate Research Assistant 2017- 2018
Susan Kalisz Lab, University of Tennessee, Knoxville
- Undergraduate Research Assistant 2016 – 2018
Jen Schweitzer and Joe Bailey Lab, University of Tennessee, Knoxville
- Undergraduate Research Assistant 2014 – 2016
Elena Shpak Lab, University of Tennessee, Knoxville

PUBLICATIONS

2024

Alan Yocca, Mary Akinyuwa, Nicholas Bailey, Brannan Cliver, Harrison Estes, Abigail Guillemette, Omar Hasannin, Jennifer Hutchison, Wren Jenkins, Ishveen Kaur, Risheek Rahul Khanna, Madelene Loftin, Lauren Lopes, **Erika Moore-Pollard**, Oluwakemisola Olofintila, Gideon Oluwaseye Oyebode, Jinesh Patel, Parbati Thapa, Martin Waldinger, Jie Zhang, Qiong Zhang, Leslie Goertzen, Sarah Carey, Heidi Hergarten, James Mattheis, Huiting Zhang, Teresa Jones, LoriBeth Boston, Jane Grimwood, Stephen Ficklin, Loren Honaas, Alex Harkess. A chromosome-scale assembly for 'd'Anjou' pear. *G3*. (in press)

Erika R. Moore-Pollard, Daniel S. Jones, Jennifer R. Mandel. Compositae-ParaLoss-1272: Complementary sunflower specific probe-set reduces paralogs in phylogenomic analyses of complex systems. *Applications in Plant Sciences*. (in press)

2023

Jennifer R. Mandel, **Erika R. Moore-Pollard**, J. Mauricio Bonifacino. The Reinvention of Compositae: Vicki Funk's legacy in the systematics of the largest plant family on Earth. *International Journal of Plant Sciences*. DOI: 10.1086/725047.

Erika R. Moore-Pollard & Jennifer R. Mandel. Packed with *Packera*: Brief history of the "aureoid *Senecio*" subgroup classification. *Capitulum* 2(2): 51-58. DOI: 10.53875/capitulum.02.2.04.

2022

Erika R. Moore, Carolina M. Siniscalchi, Jennifer R. Mandel. Reevaluating genetic diversity and structure of *Helianthus verticillatus* (Asteraceae) after the discovery of new populations. *Castanea* 86(2), 196-213. DOI: 10.2179/0008-7475.86.2.196. **Cover image; Southern Appalachian Botanical Society Richard and Minnie Windler Award** (DOI: 10.2179/0008-7475.87.1.147).

2021

J. Mauricio Bonifacino, Jennifer R. Mandel, Abigail Moore, **Erika R. Moore**, Benoit Loeuille, Lizzie Roebler. Capitulum: The Compositae Newsletter reloaded. *Taxon* 70(5): 1156-1156. DOI: 10.1002/tax.12571.

Erika R. Moore. What in the whorled: The rediscovery of *Helianthus verticillatus* Small (Heliantheae) over 100 years later. *Capitulum* 1(1): 61-64. DOI: 10.53875/capitulum.01.1.07.

Carolina M. Siniscalchi, Robert D. Edwards, Jorge Gomez, **Erika R. Moore**, Jennifer R. Mandel. Photosynthesis metabolism in Asteraceae: current knowledge and future directions. *Taxon* 70(2), 339-350. DOI: 10.1002/tax.12426.

bioRxiv

Erika R. Moore-Pollard, Jennifer R. Mandel. Resolving evolutionary relationships in the groundsels: phylogenomics, divergence time estimates, and biogeography of *Packera* (Asteraceae: Senecioneae). *bioRxiv*. DOI: 10.1101/2023.07.18.549592.

Erika R. Moore-Pollard, Jennifer R. Mandel. From paralogy to hybridization: Investigating causes of underlying phylogenomic discordance using the complex genus *Packera* (Senecioneae; Asteraceae). *bioRxiv*. DOI: 10.1101/2023.08.14.553290.

Note: Prior to 2023 I published as Erika R. Moore.

ACADEMIC SERVICE

Journal Editor

Associate Editor – *Capitulum* 2021 - Current

Guest Editor – *Journal of Systematics and Evolution* Special Issue: "A Botanist at the Extreme: Honoring the Great Contributions of Dr. Vicki A. Funk" 2022-2023

Reviewer

HortScience 2023

Molecular Biology and Evolution 2023

Evolutionary Applications 2023

Cladistics 2023

Castanea 2022

TEACHING/MENTORING EXPERIENCE

Mentoring workshops

University of Memphis

Lab training (1 week) – trained three visiting high schoolers and one visiting undergraduate student (Rice University) on wet lab and computer work 2023

Coding workshop (1 week) – mentored four graduate students in the Biological Sciences Department 2023

Phylogenomics coding workshop (5-weeks) – mentored four undergraduate and two graduate students	2023
Guest Lecturer	
<i>University of Memphis</i>	
Molecular Ecology and Conservation	2023
Teaching	
<i>University of Memphis</i>	
Biology of Organisms Lab	2018 - 2022
Course-based Undergraduate Research Experiences (CURE) – Synthetic Biology	2021

AWARDS

Southern Appalachian Botanical Society Richard and Minnie Windler Award – \$500 <i>for “Best systematics paper published in <i>Castanea</i> during the previous year”</i>	2022
Southern Appalachian Botanical Society Student Presentation Award – \$300 <i>for “Best oral presentation” at Association of Southeastern Biologists conference 2022</i>	2022
Association of Southeastern Biologists Student Research Award – \$1,000 <i>for “Best oral presentation and associated published paper” at Association of Southeastern Biologists conference 2022</i>	2022

INVITED PRESENTATIONS

Association of Southeastern Biologists Workshop: Diversity, Equity, and Inclusion Committee on Human Diversity – Panelist <u>Title of workshops:</u> “Hitting the ground running with your graduate school applications”	2022 & 2023
University of Memphis Department of Biological Sciences Workshop: Diversity, Equity, and Inclusion Committee – Panelist <u>Title of workshops:</u> “What even is Grad School?” & “Hitting the ground running with graduate school applications”	2022
Association of Southeastern Biologists symposium: Plant Conservation Genetics – Talk <u>Title of talk:</u> “Reevaluating genetic diversity and structure of <i>Helianthus verticillatus</i> (Asteraceae) after the discovery of new populations”	2022
Georgia Gwinnet College – via Zoom – Talk <u>Title of talk:</u> “Graduate school and research”	2020

CONTRIBUTED PRESENTATIONS

Botany Conference – Boise, ID – Talk	2023
Botany Conference – Boise, ID – Poster	2023
Association of Southeastern Biologists Conference – Winston-Salem, NC – Talk	2023
Association of Southeastern Biologists Conference – Winston-Salem, NC – Poster	2023
Botany Conference – Anchorage, AK – Talk	2022
Botany Conference – Online – Poster	2021
Evolution Conference – Online – Talk	2021
Association of Southeastern Biologists Conference – Online – Talk	2021
The International Compositae Alliance Talks – Online – Talk	2021
Botany Conference – Tucson, Arizona – Poster	2019
UofM Student Research Forum – Memphis, TN – Poster	2019
UofM Biological Sciences 3MT – Memphis, TN – Talk	2019

FUNDING

UofM Graduate Student Association Travel Funds – \$300	2023
Botanical Society of America Student Travel Award – \$500	2023

American Society of Plant Taxonomists Travel Grant – \$335	2023
Southern Appalachian Botanical Society Conference Support Award – \$200	2023
Center for Biodiversity Research Seed Grant – \$1,500	2022
Southern Appalachian Botanical Society Conference Support Award – \$250	2022
UofM Graduate Student Association Travel Funds – \$700	2022
Botany conference 2022 Symposium Funding – \$500	2022
Center for Biodiversity Research Seed Grant – \$3,000	2019
American Society of Plant Taxonomists Travel Grant – \$335	2019
UofM College of Arts and Sciences Travel Enrichment Fund – \$300	2019

CENTER OR SOCIETY POSITIONS

<i>Capitulum</i>	2021 - Current
Associate Editor and Founding Editorial Board member	
Center for Biodiversity member	2019 - Current
<i>Research Facilitation Committee</i>	
Botany Conference Symposium organizer	2021 - 2022
<u>Title of symposium:</u> “A Botanist at the Extreme: Honoring the great contributions of Dr. Vicki A. Funk”	

SOFTWARE LANGUAGE EXPERIENCE

Julia; Linux/Unix; Python; R

SOFTWARE EXPERIENCE

ASTRAL-III; ASTRAL-Pro; Barrier; Bowtie; Fast-Plast; GenAIEx; GenBank; Geneious; Hifiasm; HybPiper; Jellyfish; JMP; MAFFT; MarkerMiner; Matlab; MicroChecker; Microsoft Office; Pauvre; PhyloNetworks; PhyParts; Phyluce; Phyx; Quartet Sampling; RAxML; RelTime; Samtools; Structure; TreePL

ORGANIZATION INVOLVEMENT

Compositae Journal Club (TICA), member	2020 - Current
The International Compositae Alliance (TICA), member	2020 - Current
Center for Biodiversity Research (CBio), member	2019 - Current
UofM Book Club, organizer and member	2020 - 2022
UofM Biology Graduate Student Association (BioGSA), Vice President	2020 - 2021
UofM Botany Club, Secretary	2018 - 2020
UofM BioGSA, Secretary	2019 & 2020
UofM Committee for Diversity in Science, member	2018 - 2019
UofM Journal Club, member	2018 - 2019
UofM Writing Club, member	2018 - 2019

UNDERGRADUATE MENTEES

Edgardo Cruz-Martinez, University of Memphis	2023 - Current
Victoria Holyfield, University of Memphis	2023 - Current
Mariah Mattison, University of Memphis	2023 - Current
Laura Lightbody, University of Memphis	2023 - Current
Paris Fouche, University of Memphis	2022 - Current
Sam Drewry, University of Memphis	2022 - 2023
Jorge Gomez, University of Memphis	2019 - 2021
Paige Murin, University of Memphis	2018 - 2019
Byanca Moreno, University of Tennessee, Knoxville	2016 - 2018

POST-BACCALAUREATE MENTEES

Keiana Fields, University of Memphis	2022 - 2023
Jorge Gomez, University of Memphis	2021 - 2022

PROFESSIONAL MEMBERSHIP

American Society of Plant Taxonomists (ASPT)
Association of Southeastern Biologists (ASB)
Botanical Society of America (BSA)
Southern Appalachian Botanical Society (SABS)
Tennessee Plant Conservation Alliance (TPCA)
The International Compositae Alliance (TICA)

COMMUNITY INVOLVEMENT AND OUTREACH

NSF funded project for elementary students (“Compositae in a Crate”)	2018 - Current
Memphis Botanical Garden Halloween Hike	2022
Museum of Science and History (MoSH) STEAMFest – herbarium focused	2021 & 2022
Collect Japanese honeysuckle for Genomics Capstone class at West Virginia University	2022
UofM Garden cleanup, CBio associated	2021
UofM “Coffee Hour” with undergraduate students about graduate school	2021
Presentation on Graduate School and Research at Georgia Gwinnet College	2020
UofM Botany Club – various outreach opportunities	2018 - 2020
National Lab Day at UofM	2019
International Women in Science Day events with local public schools	2019
TWRA Chronic Wasting Disease (CWD) check sites	2018 & 2019
“Talk to a Botanist” at Elementary Schools	2018
“Waste Tire Cleanup Day” at T.O. Fuller State Park	2019
“Flick or Treat” at Memphis Botanic Garden	2018

REFERENCES

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rbayer@memphis.edu

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jcole2@memphis.edu