

DANIELA HELENA PALMER DROGUETT - CV

Department of Biology
The University of Texas at Arlington

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EDUCATION

University of Chicago	Evolutionary Biology	Ph.D., 2018
University of California, Davis	Mathematical and Scientific Computation Minor in Evolution, Ecology, and Biodiversity	B.S., 2012

APPOINTMENTS

2022-	Assistant Professor, Biology Department The University of Texas at Arlington
2021-2022	Presidential Postdoctoral Fellow in Ecology, Evolution, and Behavior Michigan State University
2019-2021	NSF Postdoctoral Research Fellow in Biology University of Sheffield, UK

PUBLICATIONS

- Price PD, **Palmer Droguett DH**, Taylor JA, Kim DW, Place ES, Rogers TF, Mank JE, Cooney CR, Wright AE. 2022. Detecting Signatures of Selection on Gene Expression. *Nature Ecology & Evolution* (2022):1-11.
- Rogers TF, **Palmer DH**, Wright AE. 2021. Sex-specific selection drives the evolution of alternative splicing in birds. *Molecular Biology and Evolution* 38(2).
- DuBay SG*, **Palmer Droguett DH***, Piland N*. 2020⁺. Global inequity in scientific names and who they honor. *In review*. (*bioRxiv doi: 10.1101/2020.08.09.243238*)
* denotes co-first authorship
+ updated in 2022
- Palmer DH**, Kronforst MR. 2020. A shared genetic basis of mimicry across swallowtail butterflies points to ancestral co-option of *doublesex*. *Nature Communications* 11(6).
- Palmer DH**, Rogers TF, Dean R, Wright AE. 2019. How to identify sex chromosomes and their turnover. *Molecular Ecology* 28(21): 4709-4724.
- Palmer DH**, Tan YQ, Finkbeiner SD, Briscoe AD, Monteiro A, Kronforst MR. 2018. Experimental field tests of Batesian mimicry in the swallowtail butterfly *Papilio polytes*. *Ecology and Evolution* 00:1-10.

3. Westerman EL, Letchinger R, Tenger-Trolander A, Massardo D, **Palmer DH**, Kronforst MR. 2018. Does male preference play a role in maintaining female limited polymorphism in a Batesian mimetic butterfly? *Behavioral Processes* 150:47-58.
2. **Palmer DH**, Kronforst MR. 2015. Divergence and gene flow among Darwin's finches: A genome-wide view of adaptive radiation driven by interspecies allele sharing. *BioEssays* 37(9):968-974.
1. Kunte K, Zhang W, Tenger-Trolander A, **Palmer DH**, Martin A, Reed RD, Mullen SP, Kronforst MR. 2014. *doublesex* is a mimicry supergene. *Nature* 507:229-232.

FELLOWSHIP AWARDS

- 2021-2022 Presidential Postdoctoral Fellowship in Ecology, Evolution, and Behavior
Michigan State University
- 2018-2021 NSF Postdoctoral Research Fellowship in Biology
- 2016-2018 Graduate Assistance in Areas of National Need (GAANN) Fellowship
in Quantitative Ecology
- 2014 NSF East Asia and Pacific Summer Institutes Fellowship
- 2013-2016 Graduate Assistance in Areas of National Need (GAANN) Fellowship
in Evolutionary Environmental Biology

PRESENTATION AWARDS

- 2016 Outstanding Oral Presentation - Society for the Advancement of
Hispanics/Chicanos and Native Americans in Science (SACNAS) National Meeting

INVITED SEMINARS

- 2021 Ecology & Evolution Colloquium, Stony Brook University
- 2021 Ecology & Marine Biology Group, University of Liverpool
- 2021 Ecology, Evolution & Behavior Seminar, Michigan State University
- 2020 Biology Department Seminar, The University of Texas at Arlington
- 2020 Cytogenetics & Genomics Workshop, Universidade Estadual Paulista
- 2020 Decolonisation in Practice Conference, University of Birmingham

ACADEMIC SERVICE

The University Texas at Arlington

- 2022- Biology Dept. Recruitment and Advising Subcommittee Member
- 2022- Faculty co-advisor, UTA Chapter of the Society for the Advancement of
Chicanos/Hispanics and Native Americans in Science (SACNAS)

Ad-hoc reviewer – *BMC Biology, BMC Genomics, Ecology Letters, Evolution, Evolution Letters, G3: Genes, Genomes, Genetics, Genome Biology and Evolution, Journal of Evolutionary Biology, Molecular Biology and Evolution, Molecular Ecology, Nature Communications, Proceedings of the Royal Society B*

Research Proposal reviewer – *Czech Science Foundation*

ACADEMIC SERVICE – EQUITY AND JUSTICE

Michigan State University

2022 **EEB Community Reading Group**
Organized a reading group for the MSU EEB program focused on how different systems of oppression impact our academic institutions and fields of study, both historically and in the present.

University of Sheffield

2019- **Contextualizing the Curriculum Working Group**
Organized a working group focused on confronting the impacts of imperialism, dispossession, and exclusion in STEM. We produced a guide to help members of our department redesign their curricula using a critical and explicit historical and sociocultural lens. We hosted a series of workshops to introduce biosciences faculty to these concepts and to share our work with other academic departments.

2019- **Equality, Diversity, and Inclusion Committee**
Member of departmental committee working to advance equity in student admissions and faculty hiring and promotion, and to build community in the department.

University of Chicago

2017-2018 **Ernest Everett Just Working Group**
Founding member of student group dedicated to memorializing the life and legacy of biologist E.E. Just, who earned his PhD from University of Chicago in 1916. We collaborated with local artist Stephen Flemister to conceptualize a portrait of E.E. Just, and dedicated a departmental seminar room in his honor. For more on this project see:
<https://www.uchicagomedicine.org/forefront/biological-sciences-articles/pioneering-biologist-ernest-everett-just>
and <http://eejust.stephenflemister.com>

2012-2017 **Multicultural Graduate Community/University of Chicago SACNAS Chapter**
Founding member of graduate student organization dedicated to fostering the success of students from minoritized backgrounds across the biological, physical, and social sciences. Key activities included organizing community-building socials, hosting professional development workshops, establishing local SACNAS chapter, and starting the Diversity in Science Speaker Series.

2012-2017 **Biological Sciences Division Diversity Committee**
Student member in group of 34 faculty, administrators, and students focused on recruitment and retention of graduate students from minoritized backgrounds.

Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) – The National Diversity in STEM conference

2019-2022 Reviewer for student presentations, travel awards, and session proposals

2019-2022 Mentor judge for student presentations

2019, 2020 Mentor for 1-on-1 Mentoring Workshop

Funding for Equity and Justice Work

2018 University of Chicago Campus-Wide Inclusive Climate Grant (\$3,000)
Honoring the life and legacy of Ernest Everett Just (PhD 1916) at UChicago

2017 University of Chicago Biological Sciences Division Diversity Research and Small Grants Program (\$1,000)
Dedication of a plaque and seminar room in honor of E.E. Just

2014 University of Chicago Graduate Innovation Grant (\$4,100)
Diversity in Science Speaker Series

TEACHING EXPERIENCE

2017 **Biological Systems, Teaching Assistant**
BIOS 20235 – University of Chicago
Led discussion sections to help students with problem sets covering genetics, development, ecology, and evolution; designed and graded homework and exams

2014 **The Public and Private Lives of Insects, Teaching Assistant**
BIOS 13140 – University of Chicago

Designed and delivered two lessons (Evolution of mimicry, Pollination Biology and Natural Selection), designed and graded quizzes and exams, held review/office hours

2013, 2018 **Lolita, Guest Lecturer**

ENGL 28916 – University of Chicago

Designed and delivered lecture on introductory butterfly and moth biodiversity, and Vladimir Nabokov's dual career as a novelist and curator of Lepidoptera

PROFESSIONAL TRAINING AND DEVELOPMENT

- 2019 Society for the Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS) Postdoctoral Leadership Institute
- 2019 The Genetics Society Communicating Your Science Workshop
- 2018 NextProf Science Future Faculty Workshop, University of Michigan
- 2017 Course Design and College Teaching, Chicago Center for Teaching, University of Chicago
- 2017 Teaching in the Sciences, Chicago Center for Teaching, University of Chicago
- 2016 Fundamentals in Teaching for Biological and Physical Sciences, University of Chicago

LANGUAGE AND CODING SKILLS

Fluent in English and Spanish

Proficient in R and Python