



PAVEL V. DIMENS

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<https://pdimens.github.io>

POPULATION AND EVOLUTIONARY GENOMICS

LANGUAGES

Spoken & Written

 English ●●●●●

 Russian ●●●●●

Programming

 BASH ●●●●●

 Python ●●●●●

 R ●●●●●

 Julia ●●●●●



github.com/pdimens

Repositories

[PopGen.jl](#)

[PopGenSims.jl](#)

[PopGenCore.jl](#)

[LepWrap](#)

[gust](#)

Contributions

[dDocent](#)

[DBG2OLC](#)

[adegenet](#)

[EcoJulia.github.io](#)

Communities

[BioJulia](#)

[EcoJulia](#)

EDUCATION



Ph.D. Coastal Sciences

2017-2022

University of Southern Mississippi

Advisor: Eric Saillant



M.S. Fisheries and Mariculture

2014-2016

Texas A&M University - Corpus Christi

Advisor: David Portnoy



B.S. Aquatic and Fisheries Science

2007-2010

SUNY College of Environmental Sciences and Forestry

EXPERIENCE

STEM Technical Course Developer eCornell

2022-Present

- Python course development
- R course development
- MySQL course development
- Interactive Device Design
- Course quality assessment
- Jupyter Notebook LMS integration

Graduate Student / Research Assistant University of Southern Mississippi

2017-2022

- tissue sampling
- genome assembly
- linkage map construction
- ddRAD library preparation
- genomic data processing and analysis
- Linux workstation systems administrator



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EXPERIENCE *continued*

Graduate Student / Research Assistant

2014-2016

Texas A&M University - Corpus Christi

- DNA isolation and ddRAD library preparation
- genomic data processing and analysis
- inshore long line project and field manager
- Uca sp. collection field manager
- DNA isolation methods on otolith surfaces
- teaching assistant (Bio II, A&P II)

Intern

2014

Dauphin Island Sea Lab

- sediment contaminant study project leader
- purchases and requisitions, logistics, data entry
- organizing with collaborators from Grand Bay NERR
- sediment core acquisition and sectioning
- porewater, grain size, and stable isotope analyses

Fellow

2014

Eurasia Foundation Social Expertise Exchange

- touring U.S. and Russian Republic national parks
- exchange best practices between both systems
- synthesize document spotlighting both park systems
- collaboration with World Wildlife Fund Russia
- attend international working group conferences

Intern

2012-2013

Dauphin Island Sea Lab

- oyster settlement, growth index, and stable isotope analyses
- fish stomach content analyses
- bottom, vertical long line, gillnet, seine, and hook and line
- tagging, measuring, dissection, and otolith removal of fish
- data entry, equipment design, and maintenance
- public outreach



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PUBLICATIONS

Dimens PV, Willis S, Dean Grubbs R, Portnoy DS (2019) A genomic assessment of movement and gene flow around the South Florida vicariance zone in the migratory coastal blacknose shark, *Carcharhinus acronotus*. *Marine biology*, 166, 86. DOI: 10.1007/s00227-019-3533-1

Dimens PV et al. (in prep). Weak range-wide population structure of the Blackfin tuna (*Thunnus atlanticus*) revealed with genomic markers. Submitted. *ICES Journal of Marine Science*.

AWARDS & HONORS

Mcllwain Endowment University of Southern Mississippi	2021 \$1207
Manuel Caboz Scholarship 71st Tuna Conference	2019 \$2500
Student Travel Award American Elasmobranch Society	2017 \$500
Parents Council Student Travel Award Texas A&M University - Corpus Christi	2016 \$500
Sea Grant-In-Aid Graduate Research Program award NOAA Sea Grant	2015 \$2000
Fisheries and Mariculture Student Research Award Texas A&M University - Corpus Christi	2014-2015 \$1500
College of Science and Technology Graduate Scholarship Texas A&M University - Corpus Christi	2014-2015 \$500
C.J. Davidson Graduate Scholarship Endowment Texas A&M University - Corpus Christi	2014-2015 \$500
Robin Hood Oak Award SUNY College of Environmental Sciences and Forestry	2010
Undergraduate Mentoring in Environmental Biology fellowship National Science Foundation	2009-2010



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SERVICE & TEACHING

Invited Lectures/Workshops

Introduction to Computational Genomics - University of Notre Dame	2020
Introduction to Snakemake - University of California at Irvine	2020
Julia for Big Data - Texas A&M College Station	2019

Hosted Workshops

Microsoft PowerPoint - University of Southern Mississippi	2019
Graphic Design - University of Southern Mississippi	2019
Basic Design Theory - University of Southern Mississippi	2019
Computer language fundamentals - University of Southern Mississippi	2018
Introductory Python - University of Southern Mississippi	2018
Introductory Bash - University of Southern Mississippi	2018
Introductory Julia - University of Southern Mississippi	2018

Organizational Roles

Secretary - USM American Fisheries Society Student Subunit	2019
Vice President - USM Marine and Estuarine Graduate Student Association	2018-2019
Founder/President - SUNY ESF Student Heart Walk Team	2010
Founder/President - SUNY ESF Music Society	2009-2010

Teaching Assistant

Biology II - Texas A&M University - Corpus Christi	2015
Anatomy & Physiology II - Texas A&M University - Corpus Christi	2015

Volunteering

Docent - New York Aquarium	2006-2007
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PRESENTATIONS

Whole-genome derived phylogeny of genus *Thunnus*

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| <ul style="list-style-type: none">• Evolution Conference | 2022 |
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Yellowfin Tuna Genome Assembly and Linkage Map

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| <ul style="list-style-type: none">• 71st Tuna Conference | 2021 |
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Blackfin Tuna Population Structure

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|---|------|
| <ul style="list-style-type: none">• USM Graduate Student Research Symposium | 2021 |
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PRESENTATIONS *continued*

Molecular Ecology of Marine Fishes

- Gulf Coast Research Laboratory Science Café 2020
- Corpus Christi Veterans Memorial High School 2015

Blacknose Shark Population Structure

- Joint Meeting of Ichthyologists and Herpetologists 2017
- Joint Meeting of Ichthyologists and Herpetologists 2016
- Texas A&M - Corpus Christi MSGSO Research Forum 2015
- Joint Meeting of Ichthyologists and Herpetologists 2015
- Dauphin Island Sea Lab Graduate Student Symposium 2015
- Texas A&M - Corpus Christi MSGSO Research Forum 2014

Developing A Landing Cradle for Landing Large Fishes

- Gulf and Caribbean Fisheries Institute 2014

Adirondack Pristine Lake Trophic Ecology

- SUNY ESF Symposium 2010

MEMBERSHIPS & CERTIFICATES

Evolution Society of America	2021-present
American Fisheries Society	2016-present
American Elasmobranch Society	2014-2017
PADI Open Water Diver	43 logged dives
NRA/DEC Firearm Safety Course	2011
NRA Shotgun Safety Course	2011
National Scholars Honor Society	2007