Joely G. DeSimone

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Professional Positions

University of Maryland Center for Environmental Science, Appalachia	n Laboratory Frostburg, N	ſD
• Doot do ato and Dooce and an	2022	

• Postdoctoral Researcher

2022-present

Education

University of Montana	Missoula, MT
 PhD in Organismal Biology, Ecology, and Evolution 	2017-2022
Amherst College	Amherst, MA
Bachelor of Arts in Biology, magna cum laude	2011-2015

Additional Research Experience

•	Lab and field technician, Gerson Lab, UMass Amherst	2015-2017
•	Research assistant, Clotfelter Lab, Amherst College	2014-2016

Fellowships, Grants, and Awards

Fellowship	\circ s
2017	NSF Graduate Research Fellowship (\$138,000)
2016	NSF Graduate Research Fellowship (Honorable Mention)
Grants	
2021	Drollinger Dial Travel Award (\$960)
2020	MPG Ranch (\$10,854)
2019	MPG Ranch (\$10,304)
2019	Drollinger Dial Travel Award (\$1,000)
2019	American Ornithological Society Hesse Award (\$1,939)
2018	Wilson Ornithological Society Paul A. Stewart Grant (\$1,000)
Awards	
2021	Frances F. Roberts Award for best presentation on any topic in ornithology, given by the
	American Ornithological Society
2017	Drollinger Dial Award, given to outstanding applicants by the University of Montana's
	Organismal Biology, Ecology, and Evolution graduate program
2015	Oscar E. Schotte Award for best independent work, given by the Amherst College
	Biology department
2015	James R. Elster Award to fund summer research, given by the Amherst College Biology
	department
2014	Laura Ayres Snyder Prize for select poems, given by the Amherst College English
	department

Publications

- 6. **DeSimone, J.,** Tobalske, B., and Breuner, C. 2021. Physiology and behavior under food limitation support escape, not preparative, response in the nomadic Pine Siskin (Spinus pinus). Journal of Experimental Biology 224(3).
- 5. Griego, M., **DeSimone, J.,** Gutierrez Ramirez, M., and Gerson, A. 2021. Aminopeptidase-N modulation assists lean mass anabolism during refueling in the White-throated sparrow. Proceedings of the Royal Society B 288(1943).
- 4. Gerson, A., **DeSimone, J.,** Black, E., Dick, M., Groom, D. 2020. Metabolic suppression after long duration flight is not related to fat-free mass loss or flight duration in a migratory passerine. Journal of Experimental Biology 223(19).
- 3. **DeSimone, J.,** Gutierrez, M., Griego, M., Elowe, C., Breuner, C., and Gerson, A. 2020. Developing a Stopover-CORT hypothesis: corticosterone predicts body composition and refueling rate in Gray Catbirds during migratory stopover. Hormones and Behavior 124.
- 2. Cheng, T., Gerson, A., Moore, M., Reichard, J., **DeSimone, J.,** Willis, C., Frick, W., and Kilpatrick, A. M. 2019. Higher fat stores contribute to persistence of little brown bat populations with white-nose syndrome. Journal of Animal Ecology 88(4).
- 1. **DeSimone, J.,** Clotfelter, E., Black, E., and Knutie, S. 2018. Avoidance, tolerance, and resistance to ectoparasites in nestling and adult tree swallows. Journal of Avian Biology 49(2).

In review

DeSimone, J., Domschot, B., Fylling, M., Blake, W., and Breuner, C. Body mass and triglycerides predict departure of free-living nomadic pine siskins.

Gutierrez Ramirez, M., Griego, M., **DeSimone, J.,** Elowe, C., and Gerson, A. Depleted lean body mass after crossing an ecological barrier differentially affects stopover duration and refueling rate among species of long-distance migratory birds.

Press

- "Light as a Feather: Tracking the Migratory Journeys of Individual Songbirds." 2020. Featured on Montana eBird.
- "Chasing the Chunk: Tracking Fat Loads and Movement in Migratory Songbirds." 2019. Featured on Montana eBird.

Conference Presentations

Talks

* Denotes undergraduate mentee

captivity and the field. International Symposium for Avian Endocrinology, Edinburgh, Scotland.

Posters

Glidden, C., Deakin, J., DeSimone, J., Elowe, C., Groom, D., Slezacek, J., Gerson, A. Assessment	2020
of novel biomarkers of kidney function and damage in migratory songbirds after long-duration flight.	
Society of Integrative and Comparative Biology, Austin, TX.	

DeSimone, J., Gutierrez Ramirez, M., Breuner, C., Elowe, C., Griego, M., Gerson, A. Baseline corticosterone and body composition of Gray Catbirds at stopover during spring migration. Society for Integrative and Comparative Biology, Tampa, FL.

DeSimone, J., Gutierrez Ramirez, M., Breuner, C., Elowe, C., Griego, M., Gerson, A. Baseline corticosterone and body composition of Gray Catbirds at stopover during spring migration. International Ornithological Congress, Vancouver, BC.

Griego, M., **DeSimone, J.,** Gutierrez Ramirez, M., Gerson, A. Aminopeptidase-N modulation assists lean mass anabolism during refueling in the White-throated Sparrow (Zonotrichia albicollis). Society for Integrative and Comparative Biology, New Orleans, LA.

DeSimone, J., Clotfelter, E., Black, E. and Knutie, S. Do tree swallows buffer their offspring against ectoparasites? North American Ornithological Conference, Washington, D.C.

Gutierrez Ramirez, M., **DeSimone, J.**, Griego, M., Gerson, A., Heckscher, C. Refueling performance 2016 of spring trans-Gulf migrants and the influence of lean body mass on stopover duration. North American Ornithological Conference, Washington, D.C.

Griego, M., Gutierrez Ramirez, M., **DeSimone, J.**, Gerson, A. Variation in body composition affects refueling performance and basal metabolic rate in Gray Catbirds (Dumetella carolinensis) during migratory stopover. North American Ornithological Conference, Washington, D.C.

Clotfelter, E., **DeSimone, J.**, Black, E., Runjaic, J. and Knutie, S. Parasite tolerance and resistance in nestling and adult tree swallows. International Society for Behavioral Ecology Conference, Exeter U.K.

Teaching

University of Montana

• Guest Lecture—Comparative Animal Physiology BIOL435—"Stress physiology" 2021

• Guest Lecture—Ornithology BIOO490—"Hormonal control of migration" 2021

Led first-year graduate student reading group BIOB594
 Spring 2020, Spring 2021

• TA—Ornithology BIOO490 Spring 2018

• TA—Principles of Living Systems BIOB161 Fall 2017

Outreach and Service

Graduate Governing Committee Co-President

2021-2022

Attend departmental faculty meetings and represent graduate student interests; organize student seminar series; lead GGC meetings and facilitate graduate student community-building

SACNAS 2021-present

Student member of UM's chapter of the Society for Advancement of Chicanos/Hispanics and Native Americans in Science

Paideia Professional Immersions

2021, 2022

Spoke about research and academia with Paideia High School students interested in STEM careers

Central Sierra Audubon

2021

Gave an invited presentation about bird migration to local chapter

UM Allies Training

2021

Attended Allies training that promotes LGBTQ+ equality through education, support, and awareness

Letters to a Pre-Scientist

2018-2020

Served as a scientist mentor and pen-pal to elementary and high school students from disadvantaged communities in the United States

Girls n' Bugs Club

2018

Participated in after-school program at Missoula Insectarium as a visiting scientist to help K-5 girls conduct an insect experiment and to provide a model of a female scientist

Raptor View Research Institute

2018

Organized field trip to RVRI eagle banding site for 15 UM ornithology students to learn about eagle research and conservation

Mentored Students

Field and lab technicians

Carly Andlauer, Sunny Domschot, Stephanie Klein, Megan Robbins, Lesley Rolls, Josiah Simmons

Honors thesis student

Sarah Sriraman: "Understanding the benefits of sociality and social information in an irruptive migrant"