Donavan Joel Jackson

Curriculum Vitae

2019

1600 Linda Dr. donavanjackson1990@gmail.com

Gallup, NM 87301 (505) 362-8462

Education

2014-2016 M.S. Biology. University of New Mexico. GPA: 3.50

Thesis title: *The molecular systematics and phylogeography of the widespread North American meadow vole (Microtus pennsylvanicus)*

Advisor: Joseph A. Cook

2010-2013 B.S. Biology, minor in Chemistry. University of New Mexico

2008-2010 Biology (transfer). Western New Mexico University

Professional Experience

2017-present Department of Interior, Bureau of Indian Education, Wingate High School, Fort Wingate, NM, Transitional Teacher: Biology, Anatomy & Physiology, Algebra II, Pre-Calculus

2016-2017 Department of Interior, Bureau of Indian Education, Wingate High School, Fort Wingate,

 NM, Substitute Teacher

2013-2014 Gallup McKinley County Schools, Kennedy Middle School, Gallup, NM, Mathematics Teacher

Undergraduate Research Experience

2013 Fall – Student Researcher: Department of Biology, University of New Mexico, Albuquerque,

 Summer NM. Research Objectives: Develop a multilocus phylogeny for the Holarctic ground squirrel genus *Urocitellus*, using mitochondrial and nuclear loci with doctoral student Bryan McLean in Dr. Joseph Cook’s lab.

Peer-Reviewed Publications

5) ) **Jackson, D.J.**, Malaney, J.L. and Cook, J.A. The phylogeography of the wide-spread North American endemic meadow vole (*Microtus pennsylvanicus*). *Target: Journal of Biogeography. In prep.*

4) **Jackson, D.J.**, and Cook, J.A. A precarious future for a distinctive peripheral populations of meadow voles (*Microtus pennsylvanicus*). *Submitted: Journal of Mammalogy.*

3) Cook, J.A., Galbreath, K.E., Bell, K.C., Campbell, M.L., Carriere, S., Colella, J.P., Dawson, N.G., Dunnum, J.L., Eckerlin, R.P., Greiman, S.E., Fedorov, V., Haas, G.M.S., Haukisalmi, V., Henttonen, H., Hope, A.G., **Jackson, D.J.**, *et al*. The Beringian Coevolution Project: Holistic Collections of Mammals and Associated Parasites Reveal Novel Perspectives on Evolutionary and Environmental Change in the North. Arctic Science*.* Arctic Science 3 (3), 585-617.

2) McLean, B.S, **D.J Jackson**, and J.A. Cook. 2016. Rapid divergence and gene flow at high latitudes shape the history of Holarctic ground squirrels (*Urocitellus*). Molecular Phylogenetics and Evolution 102, 174-188.

1) Cook, J.A., B.S. McLean, **D.J. Jackson**, J.P. Colella, S.E. Greiman, V.V. Tkach, T.S. Jung and J.L. Dunnum. 2016. First record of the Holarctic least shrew (*Sorex minutissimus*) and associated helminths from Canada: new light on northern Pleistocene refugia. Canadian Journal of Zoology 94 (5), 367-372.

Research Interest

Evolutionary biology, speciation, phylogeography, taxonomy, conservation biology, climate change

Professional Presentations

**Jackson, D.J.** Cook, J.A. The phylogeography and systematics of *Microtus pennsylvanicus*. Tribal College STEM Summit (TCSS), oral pres. Moscow, ID (September 2016)

**Jackson, D.J.** Molecular systematics and phylogeography of the Nearctic endemic meadow vole (*Microtus pennsylvanicus*). American Society of Mammalogists 95th Annual Meeting, oral pres. Minneapolis, MN (June 2016)

McLean, B.S., **Jackson, D.J.** Cook, J.A. Diversity, distribution and conservation of Holarctic ground squirrels (*Urocitellus*): new phylogenetic insights. American Society of Mammalogists 95th Annual Meeting, oral pres. Minneapolis, MN (June 2016)

**Jackson, D.J.** Phylogeography of the meadow vole (*Microtus pennsylvanicus*). American Society of Mammalogists 94th Annual Meeting, poster pres. Jacksonville, FL (June 2015)

**Jackson, D.J.** McLean, B.S., Cook, J.A. Phylogeny of the Holarctic ground squirrel genus *Urocitellus*. American society of Mammalogists 92nd Annual Meeting, poster pres. Philadelphia, PA (June 2013)

**Jackson, D.J.** McLean, B.S., Cook, J.A. Phylogeny of the Holarctic ground squirrel genus *Urocitellus*. UNM Department of Biology Research Day, poster pres. Albuquerque, NM (April 2013)

Professional Development

2015 Graduate Curatorial Assistant, Division of Mammals, Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM

2014 NIH Post-baccalaureate Research and Education Program (PREP) Scholar, University of New Mexico, Albuquerque, NM

2012-2013 Undergraduate Opportunities (UnO) Scholar, Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM. PI Joseph A. Cook

2012-2013 Undergraduate Museum Tech. Museum of Southwestern Biology Mammal Division. Department of Biology, University of New Mexico, Albuquerque, NM

Scholarships and Grants

*Graduate*

2016 Gates Millennium Scholarship, Bill & Melinda Gates Foundation, American Indian Graduate Center. *$10,548.*

NSF Indigenous STEM Research and Graduate Education Program/ISTEM Scholarship, Aquaculture Research Institute, University of Idaho. *$5,000.*

Alvin R. and Caroline G. Grove Summer Research Scholarship, Department of Biology, University of New Mexico. *$1,400*.

 Elenora Harvey Trotter Award for American Indian Scholars, Department of Biology, University of New Mexico. *$1,350.*

American Society of Mammalogist Travel Award. *$400.*

University of New Mexico Biology Graduate Student Association Graduate Research Allocation Committee, Travel Award. *$125*

2015 Gates Millennium Scholarship, Bill & Melinda Gates Foundation, American Indian Graduate Center. *$19,133.*

 University of New Mexico Graduate and Professional Student Association, Student Research Grant. *$500.*

2014 Gates Millennium Scholarship, Bill & Melinda Gates Foundation, American Indian Graduate Center. *$8,585.*

 University of New Mexico Graduate and Professional Student Association, Student Research Grant. *$500.*

*Undergraduate*

2010-2013 Gates Millennium Scholarship, Bill & Melinda Gates Foundation, American Indian Graduate Center. *$28,310.*

2013 Joseph Gaudin Scholarship, Department of Biology, University of New Mexico. *$500.*

2010-2012 New Mexico Legislative Lottery Scholarship, New Mexico High Education Department. *$6,910.*

2008-2010 Chief Manuelito Scholarship, Office of Navajo Nation Scholarship & Financial Assistance. *$14,000.*

Meetings Attended and Panel Participation

2016 Tribal College STEM Summit (TCSS), University of Idaho, Moscow, ID

 American Society of Mammalogists (ASM) 95th Annual Meeting, Minneapolis, MN

 STEM Cultural Colloquium: Getting at the Gap, Panel Member, University of New Mexico, Albuquerque, NM

2015 American Society of Mammalogists (ASM) 94th Annual Meeting, Jacksonville, FL

2014 Evolution 2014, Raleigh, NC

2013 American Society of Mammalogists (ASM) 92nd Annual Meeting, Philadelphia, PA

2012 Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Seattle, WA

Memberships in Professional Societies

2013-present American Society of Mammalogists

2016-present International Biogeography Society

2014 Society of Systematic Biologist

Field Experience

2016 Summer Mongolia – inventory of small mammals and their associated parasistes for natural history collections

2015 Summer Canada/USA – inventory of high latitude small mammals and their associated parasites in the Northwest Territories, Nunavut and Idaho (USA)

2015 Spring Panama – inventory of tropical small mammals and associated parasites

2014 Summer Canada/USA – inventory of boreal distributed small mammals and associated parasites in the Yukon, Idaho and Montana

2014 Spring New Mexico – small mammal collections with associated parasites in southern NM and Cibola County

2013 Fall New Mexico – small mammal inventory and associated parasites on the Ladder Ranch

2012 Summer Alaska – Small mammal and associated parasites along the Alexander Archipelago of southeast Alaska

2012 Spring New Mexico – small mammal survey and associated parasites in the Gila National Forest

Volunteer Experience and Public Outreach

Presentation: *Pursuing Science as a Native American* at Wingate High School, December 2015

Student Volunteer, Museum of Southwestern Biology Mammal Division, Spring 2012

Presentation: *Furthering Education Beyond High School* at Wingate High School, December 2012