#### Shayne R. Halter

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#### Education

- 1991: BS, Aviation Management, Metropolitan State College of Denver
- 2004: MBA, Military Management, Touro University International
- 2018: BS, Anthropology (Evolutionary Subfield), University of New Mexico
- 2019-Present: PhD in Biology, University of New Mexico

# Industry/Military Experience (USAF)

- 1991-2013: Officer, United States Air Force
  - USAF System Program Office Finance Officer: 1992-1993
  - C-130H Mission/Instructor/Fight Examiner Navigator: 1995-1999
  - Flight Commander: 1998-1999
  - MC-130P and HC-130P Mission/Instructor/Flight Examiner Navigator: 2000-2013
  - MC-130P Special Operations Group Chief Navigator: 2002-2003
  - o MC-130P/HC-130 Training Program Manager: 2003-2005
  - Squadron Assistant Operations Officer: 2004-2005
  - Special Operations Wing Chief of Plans: 2005-2006
  - o HC-130P Rescue Group Chief Navigator: 2007-2009
  - o MC-130P/HC-130 Training Program Manager: 2010-2013

# Professional Recognition and Honors (USAF)

• 27 medals and decorations including Air Medal, Aerial Achievement Medal, Meritorious Service Medal, and Joint Service Commendation Medal

# **Professional Publications Authored (USAF)**

- 58<sup>th</sup> Special Operations Wing Plans Manual (2005)
- Air Force Instruction 11-2HC-130 Volume 3, Chapter 10 (563<sup>rd</sup> Rescue Group Local Operating Procedures) (2009)
- HC-130P/N Mission Navigator Initial Qualification Syllabus of Instruction (2011)
- MC-130P Mission Navigator Initial Qualification Syllabus of Instruction (2011)
- MC-130P Senior Officer Orientation Syllabus of Instruction (2011)

# **Activities and Outreach**

- Undergraduate Anthropology Society Evolutionary Subfield Chair (2016-present)
- Organized and staffed UNM Anthropology Department table at the Summer Orientation Discover Fair (2017)

# **Curriculum Vitae**

- Presented on the Anthropology Department at the UNM STEM Collaborative Center (2017)
- Competed in the 2018 UNM Undergraduate Research Opportunity Conference. Won second place (\$150.00)
- Instructed students on cryogenic extraction of water from plants and soils at UNM IsoCamps 2022 and 2023.

#### **Research Funding**

- Evaluation of a Modern Chimpanzee Site as a Model for Early Hominin Habitats. UNM Anthropology Department. Maxine Graves Award. \$500.00
- Use of Stable Isotopes in Tooth Enamel to Compare Modern Chimpanzee and Early Hominin Sites. UNM Center for Stable Isotopes Pilot Grant. \$500.00
- University of New Mexico Graduate and Professional Student Association Student Research Grant (Summer 2019). \$500.00 to pay for remote sensing software to conduct vegetation surveys in southern Arizona.
- Use of Stable Isotopes to analyze mycorrhizal interactions between cottonwood and tamarisk along the Middle Rio Grand River. UNM Center for Stable Isotopes Pilot Grant. \$500.00
- Analysis of feather hydrogen stable isotopes to determine natal and molting locations of migrating hummingbirds. UNM Center for Stable Isotopes (\$500), Graduate and professional Student Association (\$500), University of New Mexico Graduate Research Allocation Committee (\$400), UNM Graduate Scholarship Grove Award (\$1,000)

#### **Field Research**

- 2019: Capture, transport and Metabolic respirometry trials on 6 species of bats to determine heat tolerance, Tucson, AZ.
- 2020: Collection, processing and isotopic analysis of cottonwood and tamarisk plant tissues and soils along the Middle Rio Grande River, Belen, NM.
- 2021: Collection and analysis of sound recordings and temperature data at the Rocky Mountain Research Laboratory to determine nocturnal roosting locations of male Broad-tail Hummingbirds.
- 2022: Capture, Quantitative Magnetic Resonance Scanning and respirometry trials on 1,329 hummingbirds of four species along the Mimbres River, Mimbres, NM.

# **Conference Presentations**

- Halter, S. R. (2019, July 23). *Remote Sensing and Desert Plant Classification* [Conference Presentation]. 2019 Hot Birds Research Project, Gobabeb Training and Research Centre, Namibia, Africa.
- Halter, S. R. (2022, November 17). *Energy Management in Migrating Hummingbirds* [Conference Presentation]. International Education Week, University of New Mexico, Albuquerque, NM, United States.

• Halter, S. R. and Wolf, B. O., (2023, January 3-6). *Torpor Use as a Mechanism to Spare Fat in Migrating Hummingbirds*. [Conference Presentation]. Society of Integrative and Comparative Biology 2023, Austin, TX, United States.