

ETHAN ANDREW SHIRLEY

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## EDUCATION

### The University of Michigan

**Doctor of Philosophy** (Ph.D. in Paleontology, expected May 2023)

### Michigan State University

**Juris Doctor** *magna cum laude* (J.D., 2018)

**Master of Jurisprudence** (M.J., 2018)

**Master of Science** (M.S. in Fisheries and Wildlife, 2018)

Fulbright Study and Research grantee

Mouser Scholarship in Conservation Education recipient

**Thesis:** *Compliance and Noncompliance with Environmental Rules in the Brazilian Pantanal*

### The University of Michigan

**Bachelor of Science** (B.S., 2010: Anthropology-Zoology, minor in Paleontology)

Davis Project for Peace awardee

Wallenberg Fellowship recipient

**Thesis:** *Preliminary Results and Analysis of Computed Tomography Scans of Lyuba, a Baby Woolly Mammoth (Mammuthus primigenius)*

## TEACHING AND RESEARCH EXPERIENCE

### Pantanal Partnership

*Founder, Student Advisor, Teacher*

June 2009–Present

### The University of Michigan

*Graduate Student Instructor (GSI) for EARTH 118/119*

September–December 2018

### Michigan State University

*Teaching Assistant for BIOSCI 172 Organismal Biology Lab*

January–May 2018

*Teaching Assistant for IBIO 355 Ecology*

August–December 2017

### The University of Michigan Museum of Paleontology (Fisher Lab)

*Research Assistant*

January 2010–May 2015

*Informal Teaching Assistant for EARTH 419 Paleo Lab*

January 2011–April 2014

### The University of Michigan College of Engineering

*Outreach Project Teaching Assistant*

November–December 2012

## COMMUNITY SERVICE

### **Juara Foundation**

*Director, President*

September 2014–Present

### **Rotary Club of Poconé, Brazil**

*Honorary Member*

March 2012–Present

### **Focus Conservation Fund**

*Board of Directors*

July 2011–Present

### **ECOIA–Ecologia e Ação**

*Grantwriter and Project Director*

February 2012–July 2014

## PUBLICATIONS

“**Conservation Criminology: exploring a new interdisciplinary approach to an old multidisciplinary problem through a case study in the Brazilian Pantanal.**” Shirley, E.A. and M.L. Gore. (*Spring 2019.*)

“**Using music to teach ecology and conservation: a pedagogical case study from the Brazilian Pantanal.**” Shirley, E.A., Carney, A.J., Hannaford, C.S., and G.J. Ewing. 2018. (*In Proceedings of the International Society for Music Education 33rd World Conference on Music Education Baku, Azerbaijan, 15-20 July 2018, Edited by David Forrest.*)

“**Influence of trust in scientists on illegal fishing: insights from the Brazilian Pantanal.**” Shirley, E.A. and M.L. Gore. (*PLoS One, Spring 2019. In review.*)

“**Can the North American Model work in the Global South?**” Shirley, E.A. (*In 2017 Wildlife Law Call.*)

“**A woolly mammoth (*Mammuthus primigenius*) carcass from Maly Lyakhovsky Island (New Siberian Islands, Russian Federation).**” Grigoriev, S.E., Fisher, D.C., Obadã, T., Shirley, E.A., Rountrey, A.N., Savvinov, G.N., Garmaeva, D.K., Novgorodov, G.P., Cheprasov, M.Y., Vasilev, S.E. and Goncharov, A.E. 2017. *Quaternary International*.

“**Legal Regimes Balancing Conservation and Development: Land Use Controls & Their Effects on Agriculture and the Environment.**” Shirley, E.A. 2015. Paper from the State Bar of Michigan Agricultural Law Section Student Symposium.

“**X-ray computed tomography of two mammoth calf mummies.**” Fisher, D.C., Shirley, E.A., Whalen, C.D., Calamari, Z.T., Rountrey, A.N., Tikhonov, A.N., Buigues, B., Locombat, F., Grigoriev, S., and Lazarev, P.A. 2014. *Journal of Paleontology*.

## PRESENTATIONS

“**First micro-CT of a tropical South American gomphothere tooth and implications for research on end-Pleistocene megafaunal life histories.**” Shirley, E.A., Cherney, M.D., Fisher, D.C., and A.N. Rountrey. 2019. [IN SPANISH] (Oral presentation at the X Congress

of Latin-American Paleontology in San Salvador, El Salvador.)

- “Using music to teach ecology and conservation: a pedagogical case study from the Brazilian Pantanal.”** Shirley, E.A., Carney, A.J., Hannaford, C.S., and G.J. Ewing. 2018. (Oral presentation at International Society of Music Education Conference in Baku, Azerbaijan.)
- “Music and the environment: lessons from six years of projects and partnership in the Brazilian Pantanal.”** Shirley, E.A., Carney, A.J., Hannaford, C.S., and G.J. Ewing. 2018. (Poster presentation at International Society of Music Education Conference in Baku, Azerbaijan.)
- “Effects of trust on IUU fishing: management implications.”** Shirley, E.A., Gore, M.L., and D.B. Kramer. 2018. (Oral presentation at Pathways Africa Wildlife Management Conference in Windhoek, Namibia.)
- “Exploring Compliance with Fisheries Rules in the Brazilian Pantanal.”** Shirley, E.A., and M.L. Gore. 2017. (Poster presentation at International Conference of Conservation Biology in Cartagena, Colombia.)
- “Legal Regimes Balancing Conservation and Development: Land Use Controls & Their Effects on Agriculture and the Environment.”** Shirley, E.A. 2015. (Oral presentation at the State Bar of Michigan Agricultural Law Section Student Symposium in East Lansing, MI.)
- “A Student-run International Music Exchange to Bring Music Education to Rural Brazil.”** Shirley, E.A., Carney, A.J., and R. Kieme. 2014. (Poster presentation at International Society of Music Education conference in Porto Alegre, Brazil.)
- “Technology and Intercultural Exchange in a Sustainable Model for Music Education.”** Carney, A.J., Shirley, E.A., and R. Kieme. 2014. (Oral presentation at International Society of Music Education conference in Porto Alegre, Brazil.)
- “Ontogeny of Mandible Shape in Rodents.”** Calamari, Z.T., Shirley, E.A., Swiderski, D., and M. Zelditch. 2013. (Oral presentation at Michigan Morphometrics Meeting in East Lansing, MI.)
- “Visualization and analysis of CT imaging in two mammoth calves.”** Whalen, C.D., Shirley, E.A., Fisher, D.C., Rountrey, A.N., Calamari, Z.T., Tikhonov, A.N., Buigues, B., Grigoriev, S., Holmes, C.E., and F. Lacombat. 2012. (Oral presentation at 2012 GSA Annual Conference in Charlotte, NC.)
- “TEDxUofM: Transforming Brazil.”** Shirley, E. and J. Bateman. 2012. (Presentation at 2012 TEDxUofM in Ann Arbor, MI. <[www.youtube.com/watch?v=Qcw5KT62x0s](http://www.youtube.com/watch?v=Qcw5KT62x0s)>.)
- “X-ray computed tomography of two exceptionally preserved neonate mammoths from Siberia.”** Shirley, E., Rountrey, A.N., Fisher, D.C., Tikhonov, A., and B. Buigues. 2011. (Poster presentation at 2011 Society of Vertebrate Paleontology meeting in Las Vegas, NV.)

## **AWARDS, GRANTS, AND FELLOWSHIPS BY YEAR**

**2007:** Michigan Promise Award (\$1,000), Michigan Regents Merit Scholarship (\$1,500)

**2010:** Davis Project for Peace (\$10K), Raoul Wallenberg Fellowship (\$4K)

**2013:** MSU Law Faculty Scholarship (tuition ~\$45K/year), ITAU Ecomudança Grant (\$85K)

**2014:** MSU Law Faculty Scholarship, Jurisprudence (JP, top student in the class) Award in

- Int'l Env'tl. Law, Dean's List (Law College)
- 2015:** MSU Law Faculty Scholarship, JP Award in Islamic Law, JP Award in Agricultural Law, Research Assistantship (RA) (\$5K), MSU Agriculture Biological Research Fellowship (Ag-bio) (\$5K), Dean's List (Law College)
- 2016:** Fulbright Brasil Study and Research Grant (\$16K)
- 2017:** Mouser Scholarship in Conservation and Environmental Education (\$2,500); RA (~\$18K), MSU Ag-bio Fellowship (~\$10K), Teaching Assistantship (TA) Ecology (~\$5K), MSU Law Faculty Scholarship, JP Award in Wildlife Law, Dean's List (Law College)
- 2018:** TA Intro Biology Lab (~\$10k), MSU Graduate School Travel Grants (\$1000), MSU Law Faculty Scholarship, JP Award in Natural Resource Law, Dean's List (Law College), UM GSI (~10K)

## **CERTIFICATIONS**

NREMT-B (2011), State of Michigan EMT (2014), American Red Cross CPR/First-aid Provider (2001, recertified 2011 & 2013), TIG Welding (2013), SCUBA (2012)

## **OTHER SKILLS**

Experience with qualitative data analysis, quantitative statistical analyses, and image processing in R; GIS in QGIS; coding HTML, CSS, PHP, Javascript; woodworking, metalworking, construction, car maintenance; guitar, piano, violin, and music composition.

## **LANGUAGES**

Native English and native-level Portuguese, fluent Spanish, moderate French and Russian, basic Swahili, Mandarin, and Arabic.