

# TYLER RYAN

## *Curriculum Vitae*

Graduate Student                      430 Life Science West  
Department of Zoology                Stillwater, OK 74078  
Oklahoma State University        Phone: (314) 601-5089

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## EDUCATION

- Ongoing        **M.S., Zoology**, Oklahoma State University, Stillwater, OK.  
Faculty Advisor: Polly Campbell
- 2016            **B.S., Biology**, Minor: Astronomy, Truman State University, Kirksville, MO.

## RESEARCH INTERESTS

- Speciation
- Behavioral Ecology
- Morphology & Ornamentation

## RESEARCH EXPERIENCE

- 2016    **Research Technician** – *Truman State University*, Kirksville, MO. Advisor: Vayujeet Gohkale
- Title: Lightcurve Analysis of Three Beta-Lyrae Type Variable Stars
  - Used a 14-inch Meade telescope to map nightly eclipses of inter-revolving binary stars
- 2015    **Research Technician** – *Truman State University*, Kirksville, MO. Advisor: Chad Montgomery
- Title: The Effect of Triiodothyronine on Metamorphosis Rate in Bullfrog Tadpoles
  - Injected growth hormones into bullfrog tadpoles
  - Measured affected allometry
- 2015    **Research Technician** – *Truman State University*, Kirksville, MO. Advisor: Chad Montgomery
- Title: The Effect of Body Temperature on Physiological Performance in Green and Brown Anoles
  - Cooled and warmed Green and Brown anoles
  - Took body temperatures via cloacal thermometer
  - Measured effects of body temperature on sprint speed
- 2015    **Field Technician** – *Truman State University*, Kirksville, MO. Advisor: Peter Goldman
- Title: Flower Preference of Pollinating Honey Bees in Northeast Missouri
  - Observed pollinators' preference of flower species for semester-long project
  - Calculated niche breadth to analyze flower fidelity
- 2014    **Research Technician** – *Truman State University*, Kirksville, MO. Advisor: Peter Goldman
- Recorded nesting behavior of Eastern Bluebird via nest box usage in Northeast, MO

- 2014 **Research Technician** – *Truman State University*, Kirksville, MO. Advisor: Jason Luscier
- Surveyed for bird carcasses around building windows for avian window strike project
- 2012 **Research Technician** – *Truman State University*, Kirksville, MO. Advisor: Lauren Canham
- Conducted vegetation surveys to quantify Rusty Black bird habitat in Northeast, MO

## AWARDS AND HONORS

- 2012 – 16 President's Honorary Scholarship (\$1,200/yr)
- 2012 – 16 Combined Ability Scholarship (\$2,000/yr)

## TEACHING EXPERIENCE

- 2016 **Graduate Teaching Assistant**, Introductory Biology Lab,  
Oklahoma State University, Department of Integrative Biology

## WORK EXPERIENCE

- 2016 **Truman State University Herpetarium** – *Manager & Intern Supervisor*
- Trained workers and volunteers to practice professional husbandry for 50 different species of snakes, lizards, turtles, and amphibians
  - Medicated ill animals and monitored behavior
  - Delegated work and set objectives among workers
  - Repaired enclosures
  - Volunteered 2012 to 2015; Hired for 2016

## SERVICE

- 2014 **Topeka Zoological Park** – *Summer Intern*
- Worked full-time conducting husbandry for elephants, gorillas, orangutans, giraffes, bears, reptiles, insects, etc.
  - Led outreach presentations for public interaction with education animals
  - Built new and creative toys for daily enrichment
- 2013 **Saint Louis Zoo** – *Summer & Winter Intern*
- Trained by AZA accredited zoo in essential animal husbandry
  - Worked with and handled passerines, ciconiformes, waterfowl, penguins
  - Husbandry included: feeding, medicating, rearing chicks, monitoring behavior
  - Position required excellent public interaction

## OUTREACH

2016 **Truman State University Herpetarium** – *Manager & Intern Supervisor*

- Facilitated and taught educational shows for local state parks, middle schools, and campus tours
- Taught ecological importance of reptiles, amphibians, and biodiversity
- Acted as a mentor and trained a high school intern

2016 **Oklahoma Aquarium** – *Volunteer*

- Designed and facilitated educational programs to middle schools and daily visitors
- Used education animals and props to teach how aquatic and marine animals move, eat, and protect themselves
- Behind-the-scene tours showing experimental study tanks introduced the scientific method

## SOCIETAL AFFILIATIONS

2015 **The Wildlife Society** – *Research Chair*, Truman State University

- Facilitated introductory-leveled research for members
- Facilitated Missouri Department of Conservation speakers
- Informed members of available wildlife career options and resources
- Member since 2012

## REFERENCES

**Dr. Polly Campbell** – *Assistant Professor*, Department of Integrative Biology, Oklahoma State University, Stillwater, OK 74078. (405) 744-1715, [polly.campbell@okstate.edu](mailto:polly.campbell@okstate.edu)

**Dr. Chad Montgomery** – *Associate Professor of Biology*, Department of Biology, Truman State University, Kirksville, MO 63501 (660) 785-4587, [chadmont@truman.edu](mailto:chadmont@truman.edu)

**Dr. Jason Luscier** – *Assistant Professor*, Department of Biological Sciences, Le Moyne College, Syracuse, NY 13214, (315) 445-5487, [lusciejd@lemoyne.edu](mailto:lusciejd@lemoyne.edu)

**Dr. Peter Goldman** – *Professor of Biology – Emeritus*, Department of Biology, Truman State University, Kirksville, MO 63501 (660) 785-4632, [pgoldman@truman.edu](mailto:pgoldman@truman.edu)