

Jennifer Copeland

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EDUCATION

2010-2012		University of North Texas, Department of Teacher Education and Administration, Denton, TX Texas Educator Certificate: Life Sciences (8-12)
2004-2009	Ph.D.	University of North Texas, Department of Biological Sciences, Denton, TX Advisor: Dr. Edward Dzialowski Dissertation Title: Hypoxic and Hyperoxic Incubation Affects the Ductus Arteriosus in the Developing Chicken Embryo
1996-2000	B.S.	Louisiana State University – Shreveport, Department of Biological Sciences, Shreveport, LA

RESEARCH AND EMPLOYMENT HISTORY

2017-present	Adjunct Faculty	Texas Woman's University, Department of Biology, Denton, TX.
2015-present	Adjunct Faculty	Mountain View College, Science, Technology, Engineering and Math (STEM), Dallas, TX.
2012-present	Adjunct Faculty	Tarrant County College, Life Sciences, Fort Worth, TX.
2010-2013	Substitute Teacher	Keller Independent School District
2010	Adjunct Faculty	University of North Texas, Department of Biological Sciences, Denton, TX.
2010	Post Doctoral Researcher	University of North Texas, Department of Biological Sciences, Denton, TX. Bioinformatics
2005-2009	Research Assistant	University of North Texas, Department of Biological Sciences, Denton, TX.
2005-2006, 2009	Teaching Assistant	University of North Texas, Department of Biological Sciences, Denton, TX.
2000-2004	Sales person	Hardware Resources, Bossier City, LA

PUBLICATIONS

2. **Copeland J.** and Dzialowski E. (2009). Effects of hypoxic and hyperoxic incubation on the reactivity of the chicken embryo (*Gallus gallus*) ductus arteriosi in response to catecholamines and oxygen. *Exp Physiol.* 94(1):152-161.

1. Belanger C., **Copeland J.**, Muirhead D., Heinz D., Dzialowski E. (2008). Morphological changes in the chicken ductus arteriosus during closure at hatching. *Anat Rec.* 291:1007-1015.

PRESENTATIONS

13. **Copeland J.** and Dzialowski E.M. 2010. Poster presentation. Morphological Changes in the Ductus Arteriosus in Response to Development in Hypoxia & Hyperoxia. Experimental Biology Annual Meeting, Anaheim, CA.
12. **Copeland J.** and Dzialowski E.M. 2010. Poster presentation. Hypoxic / hyperoxic incubation affects the physiology of the chicken (*Gallus gallus*) ductus arteriosus. 2nd Annual Animal Ecophysiology Workshop, Valle de Bravo, Mexico.
11. **Copeland J.** and Dzialowski E.M. 2008. Oral presentation. The effects of chronic hypoxic and hyperoxic incubation on the physiology of the chicken (*Gallus gallus*) ductus arteriosus. 1st Vertebrate Ecophysiology Workshop, Toluca, Mexico.
10. **Copeland J.** and Dzialowski E.M. 2008. Poster presentation. Effects of differing oxygen incubation levels on the physiology of ductus arteriosus in near-term chicken embryos. University of North Texas, Dept. of Biology Graduate Research Day, Denton, TX.
9. **Copeland J.** and Dzialowski E.M. 2007. Poster presentation. Effects of differing oxygen incubation levels on the physiology of ductus arteriosus in near-term chicken embryos. University of North Texas, Dept. of Biology Graduate Research Day, Denton, TX.
8. **Copeland J.** and Dzialowski E.M. 2007. Poster presentation. Effects of differing oxygen incubation levels on the physiology of ductus arteriosus in near-term chicken embryos. Society for Integrative and Comparative Biology Annual Meeting, Phoenix, AZ.
7. **Copeland J.** and Dzialowski E.M. 2006. Poster presentation. Effects of hypoxic incubation on reactivity and morphology of ductus arteriosus in near-term chicken embryos. University of North Texas, Dept. of Biology Graduate Research Day, Denton, TX.
6. **Copeland J.** and Dzialowski E.M. 2006. Poster presentation. Effects of hypoxic incubation on reactivity and morphology of ductus arteriosus in near-term chicken embryos. Society for Integrative and Comparative Biology Annual Meeting, Orlando, FL.
5. Greyner, H., **Copeland J.**, Palenske, N., Warburton S., Burggren W.W., Dzialowski E.M. 2006. Poster presentation. Cardiovascular changes during hatching in emus (*Dromaius novaehollandiae*). Society for Integrative and Comparative Biology Annual Meeting, Orlando, FL.
4. **Copeland J.** and Dzialowski E.M. 2005. Oral / Poster presentation. Effects of hypoxic incubation on reactivity and morphology of ductus arteriosus in preterm chicken embryo. The 2nd Combined Workshop Fundamental Physiology of the European Working Group of Physiology and Perinatal Development in Poultry, Berlin, Germany.
3. Dzialowski E.M., Warburton S.J., Greyner H., **Copeland J.**, Palenske, N., and Burggren W.W., 2005. Oral presentation. Cardiovascular changes during hatching in developing emus (*Dromaius novaehollandiae*). The 2nd Combined Workshop Fundamental Physiology of the European Working Group of Physiology and Perinatal Development in Poultry, Berlin, Germany.
2. Dzialowski E.M., **Copeland J.**, Motiwala R., Williamson E. 2005. Poster presentation. Vascular reactivity of the left ductus arteriosus in an avian model system. XXXV International Congress of Physiological Sciences, San Diego, CA.

1. **Copeland J.** and Dzialowski E.M. 2005. Poster presentation. The avian ductus arteriosus: the study of contractile and relaxation responses in pre-term chicken embryos. University of North Texas, Dept. of Biology Graduate Research Day, Denton, TX.

TEACHING

Anatomy and Physiology I

Anatomy and Physiology I Laboratory

Anatomy and Physiology II

Anatomy and Physiology II Laboratory

Biology for Science Majors I (online and in person)

Biology for Science Majors I Laboratory

Biology for Non-Science Majors I (online and in person)

Biology for Non-Science Majors I Laboratory

Biology for Non-Science Majors II (online)

Biology for Non-Science Majors II Laboratory

Comparative Animal Physiology

Pathophysiology

Comparative Animal Physiology Laboratory - Teaching Assistant

Animal Physiology Laboratory - Teaching Assistant

Advanced Placement Environmental Science - Internship, High School

Anatomy and Physiology - Internship, High School

SCHOLARSHIPS & AWARDS

2008	University of North Texas Graduate Research Day – Best poster in physiology and neuroscience
2006-2009	Beth Baird Scholarship
2005-2007	Developmental Physiology Graduate Scholarship
2006	College of Arts and Sciences Summer Scholarship

ORGANIZATIONS

2007-2008	UNT student chapter of the Society of Environmental Toxicology and Chemistry
2006-2009	Biology Graduate Student Association

2005-2008	The Society for Integrative and Comparative Biology
2005-2014	American Association for the Advancement of Science
2005-2008	American Physiological Society

SERVICE

2008-2009, 2012	Judge for Forth Worth Regional Science Fair
2008-2009	Judge for Woodrow Wilson Elementary School Science Fair