

Ryan Jackwood

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## Education

B.S. Biological Sciences with Honors Research Distinction  
The Ohio State University  
Columbus Ohio

Graduated June 2011  
GPA: 3.4

Master of Science in Biology (Ecology Track)  
University of Toledo  
Toledo, Ohio

August 2011 - Present

## Relevant Courses

- Organic Chemistry Series with Labs
- General Chemistry Series with Labs
- General Biology Series
- General Microbiology with Lab
- Ecology: Evolution
- Cell Biology
- Plant Physiology
- Mammalogy
- Evolution of Emerging Viruses
- Advanced Biostatistics
- Calculus I and II
- General Molecular Genetics
- Ecology: Animal Form and Function
- General Physics Series with Labs
- General Biochemistry
- General Ecology and Lab
- Vertebrate Anatomy Lab
- Animal Cell and Developmental Biology
- Physics Series with Lab
- Foundations of Ecology

## Relevant Skills

- Aseptic Technique
- Gel Electrophoresis
- RT Polymerase Chain Reaction
- Infrared Spectroscopy
- Thin Layer Chromatography
- Staining Techniques
- Serial Dilution
- DNA Extraction
- Titration
- Pipetting
- Microscopy
- Gas Chromatography
- Trituration
- HTML
- Media Preparation

## Relevant Experience

**Department of Horticulture and Crop Science**  
**OARDC Wooster, OH**

**The Ohio State University**

*Research Assistant*

*Summers of '05 - '09*

- Assisted in the analysis, field study and collection of wheat for laboratory research
- Helped improve yield and disease resistance to future varieties of wheat
- Performed laboratory procedures such as DNA extraction, RT-PCR and Gel Electrophoresis
- Educated incoming field help and laboratory interns

**Veterinary Biosciences**  
**Columbus, OH**

**The Ohio State University**

*Student Researcher*

*06/2010 – 08/2011*

- Researched the presence of torque teno virus and its inheritability in pigs
- Performed quantitative PCR, cell cloning and sequenced DNA on relevant samples
- Assisted with piglet derivation to a sterile environment
- Operated a variety of laboratory equipment such as PCR and nanodrop machines

**Department of Environmental Sciences**  
**Toledo, OH**

**University of Toledo**

*Teaching Assistant*

*08/2011 – Present*

- Lead lab sections and help students perform environmental lab procedures
- Give presentations on a weekly basis about upcoming laboratory experiments
- Help plan and create lesson plans

## Senior Thesis

*The Ohio State University*

- Researched and prepared a senior thesis on In vitro and in vivo infectivity of cloned porcine torque teno virus
- Performed research in the veterinary biosciences department under Dr. Steven Krakowka
- Wrote and defended thesis named, "Characterization of Torque Teno Virus by In Vitro Infection of Gnotobiotic Pigs: Torque Teno Virus the Cause of PAS?"

## Presentations and Publications

- Co-Author along with Clay Sneller, Mary Guttieri, Pierce Paul, Jose Costa  
Title: Variation for resistance to kernel infection and toxin accumulation in winter wheat infected with *Fusarium graminearum*.
- Jackwood, R. W. Sources of variation for DON concentration in moderately resistant Soft Red Winter Wheat. OARDC Internship Program, The Ohio State University August 2008

## Activities

- Attended American Veterinary Medical Association conference *Honolulu, HI '06*
- Race Coordinator of Running Club *The Ohio State University*
- Webmaster of Marathon Club *The Ohio State University*
- Trained and ran the Nationwide Columbus Marathon, the Cincinnati Flying Pig Marathon and the Boston Marathon

## Computing Skills

- Basic Spanish
- Macromedia Dreamweaver
- Geneious DNA sequencing Software
- R statistical analysis software
- Word Processing
- Excell
- Macromedia Flash
- Power Point

## Licensures

- Certified by IACUC in animal care and use during research
- Certified to work and research in level 2 biohazard laboratory
- Certified SCUBA diver, PADI issued certification.