

JUSTIN MICHAEL RYDER

714 Cypress Lane, Columbia, MO 65203 ♦ ryder.justin@gmail.com ♦ (816) 516-3498

EDUCATION

University of Missouri School of Medicine, Columbia, Mo.

- ▶ Class of 2014

Truman State University, Kirksville, Mo.

- ▶ Bachelor of Science in Biology, 2009
- ▶ Minors in Chemistry and Psychology
- ▶ Valedictorian, summa cum laude

EMPLOYMENT

Stowers Institute for Medical Research, Kansas City, Mo.

- ▶ Research technician in Ron Yu's lab
- ▶ Projects: Characterization and identification of innate predator cue response in mice

RESEARCH

Mouse response to interspecies chemosensory cues (Presentation)

- ▶ Finalist Young Researcher Days, Stowers Institute for Medical Research
- ▶ Mentors: Ron Yu, Jie He, Stowers Institute for Medical Research, 2010
- ▶ Skills obtained: Survival surgery techniques, gas and liquid chromatography, behavior box design and implementation in olfactory assays leading to examination of neural organization and function

Mating Calls: Determining the sensory triggers of ultrasonic vocalizations in male mice (Presentation)

- ▶ Stowers Scholars Summer Internship
- ▶ Mentors: Ron Yu, Jie He, Stowers Institute for Medical Research, 2008

Examination of Gbx2 function in zebrafish development (Poster)

- ▶ National Science Foundation Research Experience for Undergraduates
- ▶ Mentor: Samuel T. Waters, University of Missouri-Columbia, Division of Life Sciences, 2007
- ▶ Skills obtained: Basic molecular biology research techniques, usage of murine knock-out models and morpholinos in zebrafish to study vertebrate hindbrain organization early in development

Patient speech alters respiration rate, blood pressure, and heart rate (Presentation);

Inhalation-to-exhalation ratio affects heart rate variability training success (Poster);

Sitting position influences heart rate variability (Poster)

- ▶ Academic research team member (2006) and leadership positions (2007-2009)
- ▶ Mentor: Fred Shaffer, Truman State University, Department of Psychology, 2007
- ▶ Skills obtained: Physiological monitoring techniques and etiquette with human subjects, using biofeedback techniques to: improve blood circulation to extremities, improve heart rate variability, increase vital lung capacity with an spirometer

CLINICAL EXPERIENCE

Chichicastenango, Guatemala, Medical Mission Trip

- ▶ Student medical care provider

Shawnee Mission Medical Center

- ▶ Shadowed Dr. Steven Hess, neurosurgeon

Northeast Regional Medical Center, Kirksville, Mo.

- ▶ Emergency Room volunteer, 2009
- ▶ 100 hours documented

Northeast Missouri Family Health Clinic, Kirksville, Mo.

- ▶ Shadowed Dr. John C. Collins

HONORS & SCHOLARSHIPS

- Lee's Summit Healthcare Foundation Scholarship
- Doud Scholarship
- Phi Beta Kappa
- Eight semesters on University President's List
- President's Honorary Full Ride Scholarship
- Missouri Bright Flight Scholarship
- Presidential Freedom Scholarship
- St. Mary's Hospital of Blue Springs Scholarship
- Lee's Summit Sunrise Rotary Club Scholarship
- Optimist Club Community Service Scholarship
- Salutatorian of high school class (2/517) with International Baccalaureate Diploma

ACTIVITIES

MedZou Free Clinic Musculoskeletal Chair

- ▶ Clinic manager, 2011-2012

Christian Medical and Dental Association

- ▶ Care provider and clinic organizer for 2014 planned Guatemala mission trip
- ▶ Fundraising chair 2011 for Guatemala mission trip

Psi Chi Psychology National Honor Society

- ▶ Vice president (2009) - Created new chapter website
- ▶ Research Conference Chair (2008) - Responsible for chapter's annual conference for psychology research

Phi Sigma Pi National Co-ed Honor Fraternity

- ▶ Webmaster (2008-2009) - Won Best Website award at National Convention in 2008

Beta Beta Beta National Biological Honor Society

Truman State Outdoor Club/Venture Crew 403

AFFILIATIONS

- American Medical Association
- American College of Physicians
- American Congress of Obstetricians and Gynecologists
- American Medical Student Association
- Association for Psychological Science