

Curriculum Vitae

Dr. Justin William Rice
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Education:

- **Doctor of Philosophy (Ecology & Evolutionary Biology) 2012**
Iowa State University of Science & Technology, Ames, Iowa
Ecology & Evolutionary Biology Program
Department of Ecology, Evolution, & Organismal Biology
Dr. James T. Colbert – Major Professor
Dissertation Title: *Understanding and acceptance of Evolution and the Nature of Science: Studies on Faculty*
- **Master of Science (Biology Education) 2007**
Iowa State University of Science & Technology, Ames, Iowa
Interdisciplinary Graduate Studies Program ~Focus in Biology and Education
Department of Ecology, Evolution, & Organismal Biology
Dr. James T. Colbert – Major Professor
Thesis Title: *Evolution Education at Iowa State University: Student Understanding and Acceptance of Evolution, Creationism, and Intelligent Design*
- **Bachelor of Arts (Biology and Psychology - Double Major) 2003**
Augustana College, Rock Island, Illinois

Experience:

- **Lecture Teaching Experience**
St. Ambrose University
Environmental Science (BIOL 109) August 2022 - Current
Human Anatomy & Physiology I (BIOL 230) August 2022 - Current
- **Howard College**
Biology for Non-Science Majors I August 2017 - May 2022
Biology for Non-Science Majors II August 2017 - May 2022
Anatomy & Physiology I August 2017 - May 2022
Anatomy & Physiology II January 2018 - May 2022
- **Palmer College**
Cellular Physiology June 2014 - February 2017
Renal Physiology June 2014 - February 2015
Life Science Review (Team taught) October 2014 - February 2017
Physiology III (Co-taught) October 2014 - February 2017
Health Issues in the Environment October 2015 - September 2016
- **Iowa State University**
Principles of Biology I One Semester each: 2011, 2013
Introductory Biology for Non-Majors One Semester each: 2009, 2013

- **Laboratory Teaching Experience**

- **St. Ambrose University**

- Principles of Biology Lab (BIOL 101L) August 2022 – Current
 - Human Anatomy & Physiology I Lab (BIOL 230L) August 2022 - Current

- **Howard College**

- Biology for Non-Science Majors I Lab August 2017 - May 2022
 - Biology for Non-Science Majors II Lab August 2017 - May 2022
 - Anatomy & Physiology I Lab August 2017 - May 2022
 - Anatomy & Physiology II Lab January 2018 - May 2022
 - General Chemistry I Lab January 2018 - May 2018

- **Palmer College**

- Gross Anatomy I Laboratory June 2016 - October 2016
 - Gross Anatomy II Laboratory October 2014 - February 2017

- **Iowa State University**

- Introductory Biology Laboratory I for Majors Fall 2004 - Spring 2012
 - Introductory Biology Laboratory II for Majors Fall 2005 - Spring 2009

- **Research Program Experience**

- Honors Research Program – Palmer College:

- Directed one student through the process of conceiving, refining, and preparing of a research idea for submission to the Institutional Review Board.

NSF Research Experience for Undergraduates - Molecular Biotechnology & Genomics:
 Assistant for 2.5 month summer program bringing undergraduates into research labs
 Responsibilities: Managed students, travel requirements, weekly activities, and research output. Summer 2006 -2010, Iowa State University

Service:

- **Committee Service**

- Student Retention and Dismissal Committee June 2014 - February 2017
 - Academic Policy Review Committee June 2015 - May 2016
 - Palmer College Faculty Senate - Senator October 2016 - February 2017
 - Employee Welfare Committee August 2017 - May 2022
 - Howard College Faculty Senate - Alternate Senator September 2017 - August 2019
 - Phi Theta Kappa Faculty Advisor August 2018 - May 2022
 - Howard College Faculty Senate - Senator September 2019 - May 2022
 - Howard College Faculty Senate - Secretary November 2019 - May 2022
 - Beta Beta Beta Honor Society Advisor August 2022 - Current

- **Community Service**

- Skunk River Navy (2005 – 2009, 2014) – Assistant/participant for yearly (two - three weekends/year) biology education and clean-up excursion to local streams. Program goals include education about the local aquatic biodiversity, the effects of local and

upstream pollution, and the development of the undergraduate biology community.

Biology Department Community Drives (2017- 2022) – Co-organizer of a twice yearly collection of food and supplies for the local homeless shelters, family shelters, and humane society. Program goals include educating students about the needs of their local community, providing an opportunity to take a more active role in making a difference in their local community, and providing significant material assistance to local charities.

Publications:

Rice, J.W., Clough, M.C., Olson, J.K., Adams, D.C., & Colbert, J.T. (2015) University faculty and their knowledge & acceptance of biological evolution. *Evolution: Education and Outreach* 8:8

Jarchow, M. E., Rice, J. W., Ritson, R. M., & Hargreaves, S. K. (2011) Awareness and convenience are important in increasing conference sustainability. *Sustainability Science* 6, 2:253-254

Rice, J.W., Olson, J.K., & Colbert, J.T. (2011) University Evolution Education: The Effect of Evolution Instruction on Biology Majors' Content Knowledge, Attitude Toward Evolution, and Theistic Position. *Evolution: Education and Outreach* 4:1

Rice, J. W., Colbert J. T., Kelly C., Warner D., & Clough M. (2010) Evolution does not include the origin of life. *Evolution: Education and Outreach* 3:2

Presentations:

Rice, J.W., Adams. D.C., & Colbert, J.T. (2012) The Knowledge, Understanding, and Acceptance Trifecta: Issues in University-level Evolution Education. July 14th, presented at *SABER*, University of Minnesota-Twin Cities, Minnesota

Rice, J.W., Adams. D.C., & Colbert, J.T. (2012) *The Knowledge, Understanding, and Acceptance Trifecta: Issues in University-level Evolution Education*. July 8th, presented at *Evolution 2012*, Ottawa Convention Centre, Ontario, Canada

Rice, J. W., & Colbert, J. T. (2011) *Understanding and Acceptance of Evolution and the Nature of Science: A Study of University Faculty*. July 30th, presented at *SABER*, University of Minnesota-Twin Cities, Minnesota

Rice, J. W., & Colbert, J. T. (2011) *Understanding and Acceptance of Evolution and the Nature of Science: A Study of University Faculty*. June 18th, presented at Evolution 2011, University of Oklahoma, Oklahoma

Rice, J. W., & Rothschild, M. F. (2009) *Details of an NSF supported research education for undergraduates (REU) training program for recruiting and training future graduate students*. March 17th, presented at ADSA & ASAS Midwest Section Meeting, Polk County Convention Complex, Iowa

Colbert, J. T., & Rice, J. W. (2008) *Skunk River Navy*. October 11th, presented at Iowa Conservation Symposium, Iowa State University

Rice, J. W., Colbert, J. T., & Olson, J. K. (2008) *Evolution Education at Iowa State University: student understanding and acceptance of evolution, creationism, and intelligent design*. June 22nd, presented at Evolution 2008, University of Minnesota

Rice, J.W. (2006) *Evolution Education: Preliminary findings*. March 26th, presented at Graduate Research in Evolutionary Biology and Ecology Spring Symposium, Iowa State University

Invited Presentations:

Evolution: Why It Is True and Why It Matters – Panel Discussion. November 19th, 2009 with Dr. Jill Pruetz and Dr. Drena Dobbs. Part of the Iowa State University 150th Celebration of the publication of The Origin of Species. Iowa State University

Fellowships:

Knaphus College Teaching Fellowship: \$5,000

The goal of this fellowship is to aid in the development of excellent college biology teachers by providing an in-depth mentored teaching experience at the college level

Research Interests:

Improving student-to-community engagement in biological civic issues

Improving college-level biology education & science education

Lichenology