

# KORIN REX JONES

DEPARTMENT OF INTEGRATIVE BIOLOGY

UNIVERSITY OF TEXAS AT AUSTIN, TEXAS, 78712

KORINREX@UTEXAS.EDU

## EDUCATION

---

VIRGINIA TECH

*PhD Student Researching Microbial Ecology*

BLACKSBURG, VIRGINIA, USA

*August 2018- July 2023*

EMORY & HENRY

*B.A. Biology*

- Chemistry Minor

EMORY, VIRGINIA, USA

*May 2011*

## RESEARCH EXPERIENCE

---

UNIVERSITY OF TEXAS AT AUSTIN

*Impact of priority effects on the honeybee microbiome*

- Experimentally investigate the impacts of bacterial colonization order at the strain level on the structure of the bacterial communities in honeybee guts

AUSTIN, TX, USA

*August 2023 – Present*

VASSAR COLLEGE

*Bacterial community assembly of Amphibian Skin*

- Experimentally investigate factors of community assembly in a Panamanian frog species

POUGHKEEPSIE, NY, USA

*August 2020 – July 2023*

VIRGINIA POLYTECHNIC INSTITUTE

*Microbial Ecology of Amphibian Skin*

- Investigating structure and function of bacterial communities among amphibians
- Elucidate changes in amphibian skin after exposure to *Batrachochytrium dendrobatidis*
- Understand bacterial community recovery in amphibians post antibiotic exposure

BLACKSBURG, VIRGINIA, USA

*August 2018 – July 2023*

*Host-Microbiome-Parasite Interactions in Honeybees*

- Usage of network and experimental manipulations to understand interactions that occur between host, microbiome, and parasite genes to alter parasite exposure outcomes

*July 2019- July 2023*

NATURAL HISTORY MUSEUM OF UTAH

*Fossil Preparator*

- Prepare fossils for study and placement into museum collections

SALT LAKE CITY, UTAH, USA

*March 2017 – July 2018*

EMORY & HENRY

*Caudal Morphology of Moray Eels*

- Experience using diaphonization techniques, scientific drawing, and microscope photography

EMORY, VIRGINIA, USA

*August 2010 - May 2011*

*American Chestnut Restoration*

- Planted a plot of chestnut seedlings for use in future research

*August – December 2008*

*Dendrobatidae Behavioral Study*

- Performed observations on *D. auratus* in Costa Rica

*July 2010*

## TEACHING/WORK EXPERIENCE

---

VIRGINIA POLYTECHNIC INSTITUTE

BLACKSBURG, VIRGINIA, USA

***Population and Community Ecology Guest Lecture***

***January 2022***

- Ran two class sessions centered around understanding the basics of coding in the R environment.

***Plants and Civilizations Graduate Teaching Assistant***

***August 2022 – December 2022***

- Assist in teaching undergraduates the importance of plants in society and perform guest lecture.

***Ecology Guest Lecture***

***April 2022***

- Performed a guest lecture for the undergraduate ecology course taught by Susan Whitehead.

***Bio Lab Graduate Teaching Assistant***

***August 2018 – Present***

- Instruct undergraduates through laboratory procedures relevant to the general biology curriculum.
- Give short lectures to connect lab activities to topics in the general biology course.

**ARUP LABORATORIES**

**SALT LAKE CITY, UTAH, USA**

***Medical Technologist***

***October 2016 – July 2018***

- Perform routine patient testing and quality control procedures on laboratory analyzers.

**NATURAL HISTORY MUSEUM OF UTAH**

**SALT LAKE CITY, UTAH, USA**

***STEM Lab facilitator***

***February 2017 – July 2018***

- Develop and facilitate activities to engage elementary and middle school students in STEM fields

**ST. MARY'S SHANGHAI INTERNATIONAL SCHOOL**

**SHANGHAI, CHINA**

***Biology/Chemistry/Environmental Science Teacher***

***August 2013 – June 2016***

- Developed, evaluated, and revised curricula, course materials and methods of instruction
- Supervised and led the school's "Roots and Shoots" environmental conservation program

**WUXI INTERNATIONAL SCHOOL**

**WUXI, JIANGSU, CHINA**

***Biology/Chemistry/ English Teacher***

***August 2012 – July 2013***

- Planned, evaluated, and revised curricula, course materials and methods of instruction

***Kindergarten Substitute Teacher***

***August 2012 – July 2013***

- Led students in daily scheduled activities

**HENAN INSTITUTE OF EDUCATION**

**ZHENGZHOU, HENAN, CHINA**

***Oral and Written English Teacher***

***September 2011 - June 2012***

- Prepared course materials and provided consultation to students wishing to study abroad
- Served on administrative committees for institutional policies, academic issues and outreach

**EMORY & HENRY COLLEGE**

**EMORY, VIRGINIA, USA**

***General Biology Laboratory Teaching Assistant***

***August 2010 - January 2011***

- Prepared materials for, supervised and evaluated students' laboratory work
- Maintained regularly scheduled study sessions

**LEADERSHIP/SERVICE**

---

**VIRGINIA POLYTECHNIC INSTITUTE**

**BLACKSBURG, VIRGINIA, USA**

***Virginia Tech HBCU/MSI Summit***

***November 2022***

- Lightning Round talk given to promote recruitment of underrepresented students

***Undergraduate Ecology Course***

***April 2022***

- Guest lecture

***Science on Tap***

***November 2021/July 2020***

- Public outreach talk at a local brewery
- Promote science within the local community by discussing my research (Nov)
- Promote diversity in science and broaden public view of science representation (July)

***Demystifying Grad School Panel***

***October 2021***

- Participate in a panel discussion answering questions from undergraduates about applying to, and succeeding in, grad school

***Student Initiated Proposal Taskforce Panelist***

***December 2020***

- Provide student perspectives on how the university can better support student endeavors to secure external funding opportunities

***NSF GRFP Prep Class Mentor***

***September 2020 – October 2021***

- Provide critical feedback for NSF GRFP proposals

***Elementary School Data Science Program Coordinator***

***October 2019 – Present***

- Organize and manage meetings with program facilitators
- Design and implement curriculum to guide young learners through computer cluster assembly and basic coding

***Department of Biological Sciences Diversity Committee***

***Jan 2020 – Present***

- Attend meetings with faculty to organize diversity related events and initiatives

***Interfaces of Global Change Graduate Organization President***

***May 2020 – July 2021***

- Organize and conduct meetings with students within the IGC
- Assist with recruiting of new fellows
- Communicate with IGC/ Global Change Center faculty regarding student needs

***Interfaces of Global Change Curriculum Representative***

***May 2019 – May 2020***

- Attend meetings with IGC faculty to evaluate and improve class structure and outcomes

***Virginia Tech Science Festival***

***October 2018 – Present***

- Plan Interfaces of Global Change booth exhibit
- Interfaces of Global Change booth volunteer

***Interfaces of Global Change First Year Representative***

***September 2018 – May 2019***

- Attend meetings and facilitate communication between first year and senior students

**EMORY & HENRY COLLEGE**

**EMORY, VIRGINIA, USA**

***Greenhouse Caretaker***

***September 2008 - May 2011***

- Maintained species specific watering schedules and malnutrition checks for plant specimen

***Orientation Leader***

***May 2008 - September 2010***

- Gave informative tours, filed paperwork and supervised placement testing for new students

***Men of Color Alliance***

***May 2008 - September 2010***

- Co-founder, organizer, and facilitator of campus forum events

**PRESENTATIONS**

---

- Interfaces of Global Change Graduate Research Symposium 2023. Talk; title: Purple Reign: Increasing proportion of probiotic bacteria in tadpoles through embryo inoculation
- Virginia Tech Research Day 2023 Invited Student Talk; title: Bacterial colonization order on treefrog embryos impacts tadpole microbiome structure in tadpoles

- SICB 2023; Talk title: Bacterial colonization order on treefrog embryos impacts tadpole microbiome structure in tadpoles
- Cultivating Ensembles 2022; Talk title: Using Oral History Interviews to Expand Perspectives and Preserve Historically Excluded Narratives in STEM
- Virginia Tech HBCU/MSI Summit (November 2022); Lighting talk: Priority Effects in the Amphibian Microbiome
- Beneficial Microbes 2022; Poster title: Priority effects drive compositional differences in the microbiome of treefrog tadpoles
- SICB 2022; Talk title: Exposing frog embryos to bacterial isolates: Colonization order impacts structure of the tadpole microbiome
- Science on Tap (November 2021); Talk title: Frog Microbiomes with Korin Jones.
- Virginia Tech College of Science Roundtable Lunch; Talk title: Community Assembly and Stability in the Amphibian Microbiome
- Vassar College Biology Department Seminar (Sept. 2021); Talk title: Community Assembly and Stability in the Amphibian Microbiome
- Interfaces of Global Change Graduate Symposium 2021; (Online). Power talk title: Community Assembly in the Amphibian Microbiome
- SICB 2021 (Online); Poster title: Exposing frog embryos to bacterial isolates: Colonization order impacts structure of the tadpole microbiome.
- MEE Virtual 2020 (Online); Poster title: Exposing frog embryos to bacterial isolates: Colonization order impacts structure of the tadpole microbiome.
- ESA 2020 (Online); Poster title: Exposing frog embryos to bacterial isolates: Colonization order impacts structure of the tadpole microbiome.
- Science on Tap (July 2020); Panel title: NRV Science on Tap Celebrates Black Scientists
- Interfaces of Global Change Graduate Research Symposium 2020 (Cancelled); Poster title: Time in the laboratory, but not exposure to a chytrid fungus, results in rapid change in spring peeper, *Pseudacris crucifer*, skin bacterial communities.
- Virginia Tech Microbial Systems Mini-Symposium 2020; Oral presentation title: Community Ecology and the Microbiome
- Virginia Tech Department of Biological Sciences Research Day 2020; Poster title: Time in the laboratory, but not exposure to a chytrid fungus, results in rapid change in spring peeper, *Pseudacris crucifer*, skin bacterial communities.
- Virginia Tech Department of Biological Sciences Research Day 2019; Poster title: Short-term laboratory housing causes greater disruption to the bacterial communities on spring peeper skin than exposure to a fungal skin pathogen.

## **PUBLICATIONS**

---

**Jones, K. R.,** Hughey, M. C., & Belden, L. K. Colonization order of bacterial isolates on treefrog embryos impacts microbiome structure in tadpoles. *Proceedings of the Royal Society B* (2023).

<https://doi.org/10.1098/rspb.2023.0308>

Bradford, E.L., C.L. Gregory, A.R. Longoria, **K.R. Jones**, E.K. Bueren, D.C. Haak, R. Fell, L.K. Belden. A new duplex qPCR assay for the quantification of honey bee (*Apis mellifera*) parasites *Nosema ceranae* and *N. apis* tested with low dose experimental exposure. *Journal of Apicultural Research* 1–12 (2022).

doi:10.1080/00218839.2022.2083846

**Jones, K. R.,** J.B. Walke, M. H. Becker, L.K. Belden, M.C. Hughey. Time in the Laboratory, but not Exposure to a Chytrid Fungus, Results in Rapid Change in Spring Peeper (*Pseudacris crucifer*) Skin Bacterial Communities. *Ichthyology & Herpetology* 109(1), 75-83, (25 March 2021).

<https://doi.org/10.1643/h2020077>

## **AWARDS/FELLOWSHIPS**

---

- 2023 Karen P. DePauw Outstanding Interdisciplinary Presentation 2023
- NSF Postdoctoral Research Fellowship in Biology (Declined) 2023  
Three years of funding: \$60,000 Stipend/\$20,000 Research Allocation Annually
- University of Texas at Austin Stengyl-Wyer Postdoctoral Fellowship 2023  
Three years of funding: \$70,000 Stipend/\$10,000 Research Allocation Annually
- Robert Patterson Scholarship 2022  
\$800
- Dean's Graduate Award for Excellence 2021  
\$2,000
- Interfaces of Global Change Power Talk Competition 2021  
3<sup>rd</sup> place
- Virginia Tech College of Science Roundtable Scholarship 2021  
\$10,000
- Best Student Poster for the SICB Division of Ecoimmunology and Disease Ecology 2021
- National Science Foundation Graduate Research Fellowship 2020  
(3 Years of Funding) NSF GRFP
- First Place Poster: Va Tech Dept. of Biological Sciences Research Day 2020