

## **Rajeev Kumar**

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### **Education**

#### **M.S. Student at Purdue University (January 2021 –Present)**

- Graduate Research Assistant (75% time) Graduate Teaching Assistant (25% time). Dept of FNR
- Current GPA: 3.55

#### **The University of Tennessee (UTK) – Knoxville (August 2015 –May 2019)**

- Graduated *Cum Laude* with a B.S. in Biology; Ecology and Evolutionary Biology Concentration
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### **Professional Experiences**

#### **M.S. Research Assistant, Höök Lab, Purdue University (Stipend = 26,000/yr) (January 2021- Present)**

- Reintroduction and Conservation Biology –Laurentian Great Lakes Region
- Quantitative Bioenergetics Modeling & Environmental Monitoring
- Project lead for both Thesis Chapter Studies & Permission to work with State Endangered Species
- Constructed, deployed, maintained, retrieved >\$50K worth of environmental sensors from the field over 2 years
- Big data sharing, collection, and analysis with federal and state agencies

#### **Technician, Stephen J. Walker Lab, Wake Forest Institute of Regenerative Medicine (June 2020- December 2020)**

- Autism Spectrum Disorder –Blood Based Biomarker Search
- Multi-Omics and Gut Microbiome

#### **Technician, Gray/Miller Lab, UTK Dept. Wildlife, and Fisheries (September 2017- September 2019; Summer 2023)**

- Amphibian Pathology and Disease Exposure Trial Methods
- Disease Ecology

#### **Seasonal Field technician with Giam Lab, UTK Dept. Ecology and Evolutionary Biology (Summer 2017)**

- Freshwater Fish Thermal Tolerance Testing and Field Collection

#### **Research Assistant for the Bruce Lab, UTK Dept. Biochemistry and Molecular Biology (May 2016- 2017)**

- Cyanobacteria culturing, *E. coli* gene transformation, and protein collection
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### **Awards and Grants**

- **Graduate Research Assistantship 01/11/2021-Present (Purdue University)** – Tuition Remission and 26,000 additional stipend annually (65,000/yr) total value
- **Undergraduate Research Travel Grant** by University of Tennessee, Knoxville (\$300) to give poster presentation at Southeastern Partners for Amphibian and Reptile Conservation conference
- **Outstanding Undergraduate Poster Presentation, 2<sup>nd</sup> Place UTK F&W Annual Poster Symposium (\$150)**
- **UTK Office of Undergraduate Research Video Competition 1<sup>st</sup> Place 2018-** Research Communication Contest
  - First Place, Fan Favorite “3-Minutes to Win-It” Research Video Competition (\$400)
- **Finalist (Invitation Only) – Indianapolis Zoo Conservation Grant 2022.**
- **Merit-Based Scholarships 08/2015- 05/2019**
  - Volunteer Scholarship (6,000/yr) & HOPE Scholarship (4,000/yr)

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### **Select Publication (N = 3, Citations = 8, In progress = 4)**

- **Rajeev Kumar**; Daniel A. Malagon; Edward Davis Carter; Markese Bohanon; Joseph Patrick Cusaac; Anna C. Peterson; Debra L. Miller; Matthew J. Gray. "Experimental methodologies can affect pathogenicity of *Batrachochytrium salamandrivorans* infections". *PLOS ONE* <https://doi.org/10.1371/journal.pone.0235370>

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### **Classes Taught, Select Presentations, and Guest Lectures (N = 5)**

- **Teaching Assistant** – Biology and Ecology of Fishes FNR 24250, **Led 4 Sections (48 students) as Sole Instructor in Room and assisted with writing exams. (Fall 2021)**
- **Conference Oral Presentation, “Implications of monitoring oxythermal habitat of rear-edge populations of Cisco (*Coregonus artedii*)”** Rajeev Kumar, Paris Collingsworth, Jacob Hosen, Matthew Linn, Madeline Ritter, Ben Szczgiel, Tomas Höök. **Joint Aquatic Sciences Meeting (JASM, International Conference)** (May 2022)
- **Conference Poster, “Molecular Co-Expression Analysis Identifies Dysregulated Ion Transport As a Potential Mechanism for Right-Sided Colonic Hypomotility in Children with Autism”** Rajeev Kumar, Arthur Krigsman, Emma Koukos, Trang Simon, Stephen J. Walker. **International Society for Autism Research (INSAR)** (May 2021)
- **Guest lecture, “More than Skin Deep: Blood Serum Protein Changes in Response to *Batrachochytrium salamandrivorans* Chytridiomycosis”** Rajeev Kumar, Agata Grzelak, E. Davis Carter, Kurt Ash, Markese Bohanon, Matthew J. Gray, and Debra L. Miller. *UTK EEB/WFS 433* (Senior Level Course) (April 2019)

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### **Software and Relevant Skills**

- Analyze and model large datasets using multiple IDE’s and languages (Rstudio, Qiagen IPA, IDL, Python)
  - Proficient with Microsoft Office
  - Field techniques: Boat Operation, Biopsies, Surgical (fish laparotomy), GPS based Sensor Deployment, etc.
  - Wet Lab techniques: PCR, Electrophoresis, DNA extraction, etc.
  - IACUC certified, HAZMAT certified, Biosafety level 2 trained, Wildland Firefighter Level 1 certified
  - NAUI certified Open Water Diver
  - Blood smears, Necropsies, Surgical Techniques, Animal Blood Draws, and Blood cell identification
  - Trained and hired multiple undergraduate technicians for lab work and fieldwork
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