

Peyton Juarez

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SUMMARY

Biology educator and researcher with six years of postdoctoral and undergraduate teaching experience across **human anatomy and physiology**, **comparative physiology**, organismal biology, microbiology, laboratory instruction, **field based learning**, and **faculty mentored research**. Holds a PhD in Biological Sciences with scholarship focused on comparative physiology and organismal responses to environmental stress. Creates creative, evidence based undergraduate learning experiences that connect biological concepts with laboratory investigation, field observation, scientific writing, and reflective discussion. Guides students from research question development through data collection, analysis, poster preparation, and presentation. Provides academic advising, contributes to curriculum review and faculty governance, and integrates Christian faith with teaching, scientific inquiry, stewardship, human dignity, and ethical responsibility. Prepared to support undergraduate learning, sustained scholarship, and a faith centered academic community.

EXPERIENCE

Assistant Professor of Biology

August 2024 - Present

Cedar Valley Christian College

Fort Wayne, IN

Lead **undergraduate biology** instruction, laboratory development, faculty mentored research, **academic advising**, faith integration, curriculum review, and faculty governance for biology majors and related learners.

- Redesigned anatomy laboratories using specimen analysis and physiological measurements, strengthening structure function interpretation.
- Mentored **comparative physiology** researchers from study design through analysis and conference poster preparation.
- Advised biology majors on degree progress, research options, and graduate or health professions pathways.
- Integrated Christian perspectives on stewardship, human dignity, inquiry, and ethics into biology discussions.
- Used curriculum evidence and student learning observations during faculty assessment and program decisions.
- Taught anatomy, physiology, **organismal biology**, and **microbiology** with laboratory based experimental observation.

Visiting Assistant Professor of Biology

August 2022 - July 2024

Lakeview Liberal Arts College

Muncie, IN

Delivered undergraduate **organismal biology**, **microbiology**, and physiology instruction through lectures, laboratory investigations, field observations, advising, research mentorship, and departmental assessment.

- Created inquiry laboratories where teams tested questions, measured biology, evaluated results, and wrote reports.
- Mentored model organism studies focused on physiological responses, controls, records, and research limitations.
- Connected degree planning with **student research** interests and postgraduate academic or professional goals.
- Guided faith and learning discussions on vocation, living systems, research ethics, evidence, and belief.
- Reviewed laboratory outcomes and student work during biology curriculum sequencing and assessment activities.
- Combined lecture, laboratory investigation, and field observation across introductory and upper level courses.

Postdoctoral Research Fellow

July 2020 - July 2022

Midwest Biomedical Research Institute

Indianapolis, IN

Conducted **comparative physiology** scholarship on organismal responses to environmental and metabolic stress while mentoring student researchers and communicating findings through manuscripts, seminars, and scientific meetings.

- Designed controlled physiology studies using measurements and microscopy, supporting reproducible interpretation.
- Managed experiments from protocol development through analysis and manuscript preparation for research dissemination.
- Mentored summer researchers in **laboratory safety**, technique, data organization, statistics, and presentation.
- Presented specialized findings in seminars and meetings for audiences with varied biological expertise.
- Co developed manuscripts and abstracts by linking literature evidence with experimental findings and limitations.
- Led research workshops connecting current physiology findings with foundational **undergraduate biology** concepts.

Graduate Teaching and Research Assistant

August 2016 - May 2020

University Biology Program

South Bend, IN

Supported undergraduate laboratory teaching and doctoral research in comparative and organismal physiology, with responsibilities spanning laboratory safety, student feedback, research mentoring, and scientific communication.

- Taught anatomy, physiology, **microbiology**, and general biology laboratory sections under faculty supervision.
- Guided microscopy, aseptic technique, physiological measurements, specimen investigation, and scientific documentation.
- Conducted dissertation research on physiological adaptation from pilot experiments through defense.
- Mentored graduate and undergraduate researchers in setup, records, literature searches, and presentations.
- Connected biological mechanisms with structures, results, clinical examples, and ecological applications.
- Coordinated grading, consultations, and instructional feedback that improved laboratory reporting and scientific reasoning.

PROJECTS

- Comparative Physiology Research Program** 📅 2022
- A sustained scholarship program examined organismal responses to environmental and metabolic stress. Undergraduate researchers contributed to study design, physiological measurement, analysis, literature review, and scientific presentation.
- Inquiry Biology Laboratory Sequence** 📅 2024
- A redesigned laboratory sequence moved students from specimen analysis and physiological measurement toward structured interpretation, scientific writing, and evidence based discussion.

LEADERSHIP & AWARDS

- Undergraduate Research Mentor, Biology Student Research Symposium
- Faculty Curriculum and Assessment Committee Member
- Doctoral Research Scholarship, Comparative and Organismal Physiology

EDUCATION

- Doctor of Philosophy in Biological Sciences** 2020
University of Notre Dame GPA: 4.0 Notre Dame, IN
Coursework: Comparative physiology, organismal biology, environmental stress, microbiology
- Bachelor of Science in Biology** 2014
Indiana Wesleyan University GPA: 4.0 Marion, IN
Coursework: Human anatomy, physiology, microbiology, scientific research

CERTIFICATIONS

- Responsible Conduct of Research Training 📅 2026
- Laboratory Safety and Biosafety Training 📅 2026

TECHNICAL SKILLS

- **Biology Disciplines:** Comparative physiology, organismal biology, microbiology
- **Anatomy and Physiology:** Human anatomy, human physiology, physiological measurement
- **Laboratory Methods:** Specimen analysis, microscopy, aseptic technique
- **Research Design:** Study design, experimental controls, protocol development
- **Data Analysis:** Statistical reasoning, biological measurement, results interpretation
- **Scientific Communication:** Scientific writing, poster preparation, conference presentation
- **Field Learning:** Field observation, organismal study, ecological examples
- **Teaching Methods:** Inquiry based learning, active learning, case discussion
- **Academic Advising:** Degree planning, research pathways, graduate preparation
- **Faculty Service:** Curriculum review, program assessment, faculty governance
- **Research Compliance:** Laboratory safety, biosafety, responsible conduct
- **Faith and Learning:** Christian faith integration, stewardship, research ethics

SKILLS

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|--------------------------|--------------------------|--------------------------|--------------------------|
| • Biology Teaching | • Organismal Biology | • Student Research | • Data Analysis |
| • Anatomy and Physiology | • Microbiology | • Academic Advising | • Curriculum Development |
| • Comparative Physiology | • Laboratory Instruction | • Scientific Scholarship | • Faculty Governance |
| • Integrative Biology | • Field Based Learning | • Research Design | |

PROFESSIONAL AFFILIATIONS

- Biology Student Research Symposium, Undergraduate Research Mentor
- Faculty Curriculum and Assessment Committee, Committee Member
- Christian Higher Education Community, Faith and Learning Contributor

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST