



IUJUR

**Indiana University Journal of
Undergraduate Research**

Volume VIII, 2025

Editors-in-Chief

Calina He & Parmida Nazarloo

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Muntasir Munaf

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LETTER FROM THE EDITORS

Dear Reader,

We are thrilled to present Volume VIII of the Indiana University Journal of Undergraduate Research (IUJUR). This publication marks a significant milestone for our organization, as it is the first volume since 2022. The release of this volume represents the culmination of years of persistence and renewal, and we are incredibly proud of our team's dedication to reviving and advancing the mission of IUJUR.

Within this volume, you will find an outstanding collection of undergraduate research from across Indiana University's diverse academic disciplines—ranging from the natural sciences to the humanities. These articles showcase the intellectual rigor, creativity, and resilience of our student

authors, and we extend our deepest appreciation to the faculty mentors who guided and supported their work.

IUJUR is a student-led, faculty-advised journal committed to making research and publication accessible to undergraduates. In addition to publishing this open-access, peer-reviewed journal, we operate an academic publishing course to train student editors, host professional development events, and strive to create a community where undergraduates feel empowered to engage in meaningful research.

Since the COVID-19 pandemic, IUJUR has rebuilt its infrastructure, from the way we reviewed submissions to reestablishing editorial and design processes. Volume VIII stands out as a particularly unique edition, as its

articles were published on a rolling basis rather than a single collective release. As a result, this volume features a diverse collection of articles spanning the past three years.

As IUJUR enters this new chapter, we remain committed to fostering an inclusive, collaborative, and high-impact research environment for students at Indiana University. We look forward to publishing future volumes with consistency and excellence.

Thank you for supporting undergraduate research and for being part of the IUJUR community. We hope you enjoy this long-awaited edition.

Warm regards,
Calina He and Parmida Nazarloo
IUJUR 2024-2025
Co-Editors-in-Chief

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