

Sample Mentor CV

Dr. Jordan M. Ellis

Professor of Biological Sciences

University of Arkansas – Fayetteville

Education

- Ph.D., Molecular Biology – University of Wisconsin, 2002
- M.S., Biochemistry – University of Kentucky, 1997
- B.S., Biology – University of Tennessee, 1995

Professional Appointments

- **Professor**, Department of Biological Sciences, University of Arkansas (2016–present)
- **Associate Professor**, Department of Biological Sciences, University of Arkansas (2010–2016)
- **Assistant Professor**, Department of Biological Sciences, University of Arkansas (2004–2010)
- **Postdoctoral Fellow**, Department of Genetics, University of California–Berkeley (2002–2004)

Research Interests

- Molecular mechanisms of stress response in plants and microbes
- Genetic engineering and bioinformatics applications in biotechnology
- Microbiome diversity under environmental stress conditions
- High-impact undergraduate participation in scientific discovery

Selected Publications

- Ellis, J.M., & Chen, R. (2023). *Heat shock protein regulation in maize under drought stress*. *Plant Physiology*, 182(2), 312–325.
- Ellis, J.M., Davis, P., & Wang, S. (2021). *Genome editing as a teaching tool: CRISPR modules in undergraduate classrooms*. *Journal of Undergraduate Research*, 15(1), 44–58.
- Ellis, J.M. (2018). *Undergraduate-led research in microbiome analysis: Expanding classroom to field*. *CBE Life Sciences Education*, 17(4), 89–101.
- Ellis, J.M., & Alvarez, K. (2016). *Microbial signaling under nutrient stress conditions*. *Microbiology Letters*, 191(3), 201–214.
- Ellis, J.M. (2012). *Undergraduate engagement in synthetic biology*. *Journal of Science Education*, 12(2), 77–89.
- Ellis, J.M., Patel, D., & Lawson, T. (2010). *Bacterial symbionts in legume drought tolerance*. *Applied Environmental Microbiology*, 176(7), 521–530.
- Ellis, J.M. (2006). *Translational research opportunities for undergraduates in molecular biology*. *Biochemistry Education*, 34(1), 44–53.

Sample Mentor CV

Courses Taught

- **BIOL 2533: Cell Biology** (2005–present)
 - **BIOL 4803: Research Design in Biology** (2012–present)
 - **HNRS 2003: Honors Colloquium in Biotechnology** (2018–present)
 - **BIOL 498V: Undergraduate Research** (2006–present)
 - **Graduate Seminar in Molecular Biology** (2010–2017)
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Grant Activity

- **National Science Foundation (NSF) – Division of Undergraduate Education**
Co-PI, *Enhancing Undergraduate STEM Research in Biology* (\$275,000, 2019–2022)
 - **U.S. Department of Agriculture (USDA)**
PI, *Plant–Microbe Interactions in Drought Conditions* (\$410,000, 2014–2017)
 - **Arkansas Biosciences Institute**
Co-Investigator, *Crop resilience through microbial engineering* (\$125,000, 2011–2013)
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Invited Presentations

- *Undergraduate Research as a Driver of Discovery*, Council on Undergraduate Research National Conference, Washington, D.C. (2023)
 - *Mentorship Models in the Biological Sciences*, SEC Faculty Symposium, Nashville, TN (2021)
 - *Building Inclusive Research Labs*, American Society for Cell Biology, Boston, MA (2019)
 - *Stress-Response Pathways in Microbes*, Society for Experimental Biology, San Francisco, CA (2017)
 - *Undergraduate Participation in Genomics Research*, American Society for Biochemistry and Molecular Biology, Chicago, IL (2015)
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Honors and Awards

- **Outstanding Mentor Award**, Office of Nationally Competitive Awards (2023)
 - **Honors College Outstanding Faculty Mentor** (2022)
 - **Imhoff Award for Excellence in Undergraduate Teaching** (2019)
 - **University of Arkansas Undergraduate Research Excellence Award – Faculty Mentor** (2015, 2020)
 - **Fulbright College Master Teacher Award** (2012)
 - **Early Career Faculty Award**, University of Arkansas (2008)
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Professional Service

- Editor, *Discovery: The Undergraduate Research Journal of the University of Arkansas* (2019–present)
- Reviewer, *Plant Physiology*; *Applied Environmental Microbiology*; *CBE Life Sciences Education*
- Faculty Advisor, Biology Club (2010–2018)
- Member, University Undergraduate Research Advisory Council (2015–present)