

# Aaron E. Kidd

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## PROFESSIONAL OBJECTIVES

- Conduct high-resolution research focusing on the role of teacher behaviors in promoting effective classroom learning at all levels of science instruction.
- Create and implement highly effective teacher education and professional development experiences for all students.
- Promote a deep and abiding appreciation and respect for the natural world, and a robust conceptual understanding of foundational biological ideas.
- Support undergraduate and graduate student research through high-impact mentorship practices.

## RESEARCH INTERESTS

Teacher Behaviors  
Preservice Teacher Education  
Graduate Student Teacher Preparation

## EDUCATION

<b>2024</b>	<b>Ph.D. in Curriculum and Instruction: Science</b> Texas A&M University <i>Dissertation Title:</i> The role of the science teacher: Examination of science education research and science teacher education.
<b>2020</b>	<b>M.S. Biology</b> University of Central Oklahoma <i>Thesis Title:</i> Conduction of biological research and the partial implementation of learned scientific practices into a middle school science classroom.
<b>2015</b>	<b>B.S.Ed. Secondary Science Education – Biology, <i>cum laude</i></b> University of Central Oklahoma

## PROFESSIONAL EXPERIENCE

<b>2024 – Current</b>	Assistant Professor of Science Education University of Science and Arts of Oklahoma Split Appointment: School of Education and Speech Language Pathology and the School of Science and Kinesiology
<b>Courses:</b> NSCI 2423: Science in the Elementary School EDUC 4763: Teaching Science in the Secondary School BIO 1303: Survey of Organisms BIO 1301: Survey of Organisms Lab BIO 1201: Principles of Biology Lab EDUC 3102: Educational Psychology EDUC 4442: Classroom Management and Assessment Theory NSCI 3711: Next Step Prep	
<b>2022 – 2024</b>	Program Coordinator: ON-RaMP (Research and Mentorship for Postbaccalaureates) Oklahoma State University Department of Integrative Biology
<b>2020 – 2022</b>	Adjunct Instructor Texas A&M University Department of Teaching, Learning, and Culture
<b>Courses:</b> Elementary Methods in Science Education Instructor: Inquiry in Life and Earth Sciences	
<b>2020 (Summer)</b>	STEM Program Coordinator Camp Echo Lake Summer Camp
<b>2019 – 2020</b>	Adjunct Instructor University of Central Oklahoma Department of Biology
<b>Courses:</b> University Life Sciences Lab	
<b>2019 – 2020</b>	Retention Coordinator: TEACH Program University of Central Oklahoma TRIO: Student Support Services

**2018 – 2019** 7<sup>th</sup> Grade Science Teacher  
Deer Creek Middle School  
Edmond, OK 73025

**2016 – 2018** 6<sup>th</sup> Grade Science Teacher  
Sequoyah Middle School  
Edmond Public Schools  
Edmond, OK 73034

**2015 - 2016** Pre-AP Biology Teacher  
Memorial High School  
Edmond Public Schools  
Edmond, OK 73013

### **PROFESSIONAL MEMBERSHIPS (CURRENT)**

Association for Science Teacher Education (ASTE)  
Southwest Association for Science Teacher Education (SW-ASTE)  
National Association of Biology Teachers (NABT)  
American Society for Engineering Education (ASEE)

### **PROFESSIONAL SERVICE**

<b>2025</b>	OSTA Awards Review Committee Member
<b>2024 – Current</b>	Teacher Education Committee (Science Program Head)
<b>2024 – Current</b>	Secondary Science Education Advisor
<b>2024 – Current</b>	Student Appeals Committee Member
<b>2024 – Current</b>	CIMER-Certified Undergraduate Research Mentor
<b>2024 – Current</b>	Student Teaching University Supervisor
<b>2023 – 2024</b>	Oklahoma State University: Department of Integrative Biology: K. L. Smith Undergraduate Research Symposium Chair

### **PROFESSIONAL CERTIFICATIONS**

<b>2023 – Current</b>	CIMER (Center for the Improvement of Mentored Experiences in Research) Certified Facilitator
<b>2015 – Current.</b>	Oklahoma State Department of Education Teaching Certification: Biological Sciences (5th-12th)

## HONORS/AWARDS

2025	Learning and Teaching in Times of Science Denial and Disinformation Recipient - NARST
2020	Lechner Fellowship Texas A&M University Merit-Based Financial Scholarship
2015	Biology Education Senior Award University of Central Oklahoma Recognition of Highest Rank: Science Education
2015, 2013	Dean's Honor Roll University of Central Oklahoma
2014, 2015, 2011	President's Honor Roll University of Central Oklahoma
2011	Freshman Achievement Waiver Merit-Based Financial Scholarship

## PEER-REVIEWED PUBLICATIONS

Herman, B. C., Poor, S., Clough, M. P., Rao, A., **Kidd, A.**, De Jesús, D., & Varghese, D. (2024). It's not just a science thing: Educating future STEM professionals through mis/disinformation responsive instruction. *Journal of Research in Science Teaching*, 1–50. <https://doi.org/10.1002/tea.21934>

**Kidd, A. E.**, De Jesús, D., Poor, S. (2024). Elephant tusks and natural selection: Leveraging naive student models to identify and address misconceptions surrounding evolutionary theory, *The American Biology Teacher* 86(2), 94-100.

Amin, S., Sanders, M., **Kidd, A. E.**, & Rambo-Hernandez, K.E. (2023). How much does readiness matter? An examination of student persistent intention and engineering identity. *ASEE Annual Conference & Exposition Proceedings*, Baltimore, MD, 25-28 June. <https://nemo.asee.org/public/conferences/327/papers/38515/view>

**Kidd, A.**, Sobotka, A., Janney, B. (2023). Exploring energy distribution in ecosystems by integrating a classroom-level biological survey. *American Biology Teacher*, 85(3), 152-158.

Sobotka, A. J., Janney, B. A., & **Kidd, A. E.** (2023). Plotting success: An activity for refining approaches to interpreting graphs. *The Clearing House: A Journal of Educational Strategies, Issues, and Ideas*, 96(4), 116-121.

Janney, B. A., Sobotka, A. J., **Kidd, A. E.** (2022). Decontextualizing velocity and acceleration in a concrete (and sweet) eating activity. *The Clearing House: A Journal of Educational Strategies, Issues, and Ideas*, 95(5) 202-209.

**Kidd, A. E.**, Allan, E., Nelson, M. (2019). The effect of argument-based naïve model development upon student content knowledge and perception of science: Middle school science classroom. *National Association of Biology Teachers: Education Research Symposium Conference Proceedings*, Chicago, IL, 15 November. [https://nabt.org/files/galleries/NABT\\_Conference\\_Manuscript\\_Kidd\\_et\\_al.pdf](https://nabt.org/files/galleries/NABT_Conference_Manuscript_Kidd_et_al.pdf)

## MANUSCRIPTS UNDER REVIEW AND IN-PREPURATION

**Kidd, A. E.** & De Jesus, D. *Mass and space are simply not enough: Utilizing inquiry to generate robust models of matter for middle school science students* (In Preparation for Submission)

## GRANT ACTIVITY

<b>2022 – 2024</b>	Reichert, M., McCullagh, E. Title: RaMP: Oklahoma network addressing human impacts across biological processes (ON-RaMP). Submitted to the National Science Foundation DBI - RaMP-Res & Mentoring Postbac Program. (Award No. 2216648). Funded: \$2,719,700. <b>Role: Program Coordinator.</b>
<b>2021 – 2023</b>	Herman, B. C., Clough, M. P., Rao, A, Goodey-Pellois, J., & Powers., T. (2021). Title: Using Novel Instructional Materials to Improve Students' Detection of Pseudoscience in Decision-Making about Socially relevant Real-World Issues. Submitted to the National Science Foundation DUE - IUSE- Engaged Student Learning: Level I Program. (Award No. 2111199) Funded: \$599,870. <b>Role: Graduate Research Assistant</b>
<b>2015</b>	Research, Creative, and Scholarly Activities Grant: Kidd, A. E., Allan, E., Jackson, V. Effect of baiting regime and canopy cover upon occupancy and detection of mesocarnivores: Pontotoc Ridge Preserve. Submitted to the Office of High Impact Practices. University of Central Oklahoma. Funded: \$500.00. <b>Role: PI</b>

## PEER-REVIEWED PRESENTATIONS

Herman, B. C., Powers, T., Villwock, M., De Jesús, D., Clough, M. P., Janney, Ben, **Kidd, A.**, (Accepted). *Promoting undergraduate non-science majors' evolution learning perspectives through NOS, mis/disinformation, and bias regulation teaching*. To be presented at the 2026 NARST Conference, Seattle, Washington, April 19 - 22, 2026

**Kidd, A.**, Wilson, E., Branch, M., Raygoza, Y., Atzbach, K. & Sotry, R (2025) Portraying the science teacher, discrepancies between secondary methods syllabi and instructor depictions of the teacher's role. 2025 OAS Technical Meeting, Tulsa, OK, November 7. 2025.

**Kidd, A.**, Wilson, E., Branch, M., Raygoza, Y., Atzbach, K. & Sotry, R (2025) Portraying the science teacher, discrepancies between secondary methods syllabi and instructor depictions of the teacher's role. 2025 SWASTE Regional Conference, Pottsboro, TX, October 4. 2025.

Herman, B., Clough, M. P., Poor S. V., Janney, B., **Kidd, A. E.**, Villwock, M., Perez, C. M., Rao, A. (2025). Factors associated with university biology students' evolution acceptance of and emotive receptivity toward learning evolution. 2025 NARST Conference, National Harbor, MD, March 23, 2025.

**Kidd, A. E.**, Clough, M. P., Olson, J., Berg, C. (2024). Identifying the Prevalence of High-Resolution Analyses of Teacher Behavioral Patterns in Recent Science Education Publications, 2024 ASTE Conference, New Orleans, LA, January 10-13, 2024.

Clough, M., **Kidd, A. E.**, Olson, J., Berg, C. (2023). Do we believe our own research? Inadequate attention to the teacher's role. North-Central Association for Science Teacher Education Regional Conference, Winona, MN, 2023.

Herman, B. C., Clough, M. P., Poor, S., **Kidd. A. E.**, De Jesús, D. J., Varghese, D., Rao, A., Sobotka, A., Janney, B., Olson, A., (2023). Beyond the science: factors that influence university biology students' COVID-19 actions and vaccine acceptance, 2023 NARST Conference, Chicago, IL, April 18-21, 2023.

**Kidd, A. E.**, Clough, M., Olson, J. (2023) Identifying the Prevalence of High-Resolution Analyses of the Teacher's Role in Recent Science Education Publications. Poster Presentation: Association for Science Teacher Education. Salt Lake City, UT. Jan. 11-14.

**Kidd, A. E.**, Sobotka, A., Janney, B. (2022) Exploring Energy in Ecosystems by Integrating a Classroom BioBlitz Model. Science Teachers Association of Texas Education Conference. Dallas TX. Nov. 10-12.

Sobotka, A. J., Janney, B. A., & **Kidd, A. E.** (2022). Plotting success: An activity for refining approaches to interpreting graphs. Science Teachers Association of Texas Conference. Dallas TX. Nov. 10-12.

**Kidd, A. E.**, Clough, M. P., Olson, J., Miller, H. (2022) Identifying the Prevalence of High-Resolution Analyses of the Teacher's Role in Recent Science Education Publications. Southwest Association for Science Teacher Education. San Marcos, TX. Oct. 14-15.

Janney, B., **Kidd, A. E.**, Sobotka, A., (2022). Modeling concepts of motion with a decontextualized, edible activity. 2022 NSTA National Conference, Houston, Texas. March 30-April 2, 2022.

Herman, B. C., Clough, M. P., Rao, A., Poor, S. V., Janney, B. A., Sobotka, A. J., **Kidd, A. E.** (2022) University biology students' COVID-19 decisions: The interconnected influence of COVID-19 science perceptions and sociocultural membership. Proposal submitted for the Association for Research in Science Teaching (NARST) international conference. Vancouver, BC, March 27-30.

Herman, B. C., Clough, M. P., Rao, A., Poor, S. V., Janney, B. A., Sobotka, A. J., **Kidd, A. E.** (2022) The influence of COVID-19 science perceptions and sociocultural membership on university biology students' COVID-19 decisions and policy support. Proposal submitted for inclusion in The Association for Science Teacher Education conference. Greenville, SC, January 6-8.

Sobotka, A. J., Janney, B. A., Herman, B. C., Poor, S. V., **Kidd, A. E.**, Clough, M. P., & Rao, A. (2022) University biology students' perceptions of policymakers' and scientists' COVID-19 responses. The Association for Science Teacher Education. Greenville, SC, January 6-8.

Raven, S., De La Cruz, I., Matthews, S., **Kidd, A. E.** (2021). Children's literature connections for preschool and early elementary science. Science Teachers Association of Texas Conference for the Advancement of Science Teaching (CAST), Fort Worth, TX.

**Kidd, A. E.**, Allan, E., Nelson, M. (2019). The effect of argument-based naïve model development upon student content knowledge and perception of science: middle school science classroom. Paper presented at the National Association of Biology Teachers 2019 Conference, Chicago, IL.

**Kidd, A. E.**, Allan, E., Nelson, M. (2019). The effect of argument-based naïve model development upon student content knowledge and perception of science: middle school science classroom. Paper presented at the Oklahoma Academy of Science Technical Meeting, Edmond, OK.

**Kidd, A. E.**, Allan, E., Nelson, M. (2019). The effect of argument-based naïve model development upon student content knowledge and perception of science: middle school science classroom. Paper presented at the Southwest Association for Science Teacher Education, Fayetteville, AR.

**Kidd, A. E.**, Jackson, V. (2019). Estimating occupancy of mesocarnivores through non-invasive survey methods: Pontotoc Ridge Preserve. Poster presented at the Oklahoma Natural Resources Conference, Tulsa, OK.

Hofeld, J., **Kidd, A. E.**, Allan, E., Nelson, M. (2018). The impact of a research-based master's program on the science teacher and science classroom. Presented at the Southwest Association for Science Teacher Education, Norman, OK.