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| Dr. Jessica M. Toombs |

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| 2910 Joshua Tree Rd Apt 18  Chico, CA 95973 | jmtoombs@csuchico.edu  (816) 294-6572 |
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| **Curriculum Vita** | |

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| **Education** | |  |
|  |  | |
| **Doctor of Philosophy in Agricultural Education**, 2021 | | |
|  | Dissertation: Professional Development Needs of Oklahoma Induction-Year School-Based Agricultural Education Teachers Across Certification Pathways: A Mixed Methods Approach | |
|  | *Oklahoma State University* | |
|  | Advisor: Dr. Rob Terry, Jr. | |
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| **Graduate Certificate**, 2021 | | |
|  | Statistical Methods and Analysis in Education and Behavioral Sciences | |
|  | *Oklahoma State University* | |
|  | Advisor: Dr. Jam Khojasteh | |
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| **Master of Science in Agricultural Education**,2018 | | |
|  | Thesis: Teacher Locus of Control and Self-Efficacy of Agricultural Educators in Southeast Missouri | |
|  | *Oklahoma State University* | |
|  | Advisor: Dr. Rob Terry, Jr. | |
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| **Bachelor of Science in Agricultural Education**, 2010 | | |
|  | Teacher Certification Emphasis | |
|  | *University of Missouri* | |
|  | Magna Cum Laude | |

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| **Professional Experience** | | | | |
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| 2025 to Current | | | | |
|  | Assistant Professor of Agriculture, Food and Natural Resource Education | | | |
|  |  | Department of Community Sustainability | | |
|  |  | College of Agriculture and Natural Resources | | |
|  |  | Michigan State University | | |
|  |  | 60% Teaching, 30% Research, 10% Service Appointment | | |
|  |  |  | | |
|  |  | Teaching Assignments | | |
|  | - | | | *CSUS 818 Theory and Practice of Program Planning in Agriculture, Food and Natural Resource Education*, Fall 2025 (In-person Instruction) |
|  |  |  | | |
|  | Graduate Advising | | | |
|  |  |  | | |
|  | Additional Assignments | | | |
|  |  |  | | |
| 2021 to 2025 | | | | |
|  | **Assistant Professor of Agricultural Education** | | | |
|  |  | | College of Agriculture | |
|  |  | | California State University, Chico | |
|  |  | | 100% Teaching Appointment | |
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|  |  | | Teaching Assignments | |
|  | - | | | *AGED 521 Curriculum and Methodology in Teaching Vocational Agricultural Education*, Fall 2024; Spring 2025 (Synchronous Online Instruction) |
|  | - | | | *AGED 694 Data Analysis in Agricultural Education*, Fall 2024 (Asynchronous Instruction) |
|  | - | | | *AGED 201 Introduction to Agricultural Education*, Fall 2024 (In-person Instruction) |
|  | - | | | *AGED 600 Research Methodology in Agricultural Education*, Fall 2023 (Asynchronous Instruction) |
|  | - | | | *AGRI 398 Innovations in Agriculture,* Fall 2023; Spring 2025 (In-person Instruction) |
|  | - | | | *AGED 699 Master’s Thesis in Agricultural Education*, Spring 2023 (Independent Study) |
|  | - | | | *AGED 600 Research Methodology in Agricultural Education*, Summer 2022 (Hybrid Instruction) |
|  | - | | | *AGED 210 Directed Field Experience in Agricultural Education,* Spring 2022; Fall 2022; Spring 2023; Fall 2023; Spring 2024 (In-person Instruction) |
|  | - | | | *AGED 420 Techniques in Vocational Agriculture Instruction,* Spring 2022; Spring 2023; Spring 2024; Spring 2025 (In-person Instruction) |
|  | - | | | *EDUC 501 Assessment of Teaching Performance*, Spring 2022; Fall 2022; Spring 2023; Fall 2023; Spring 2024 (Hybrid Instruction) |
|  | - | | | *AGRI 399 Special Problems in Agricultural Education*, Spring 2023 (Independent Study) |
|  | - | | | *AGRI 499H Honors Research*, Spring 2023, Fall 2024 (Independent Study) |
|  | - | | | *AGED 520 Supervised Teaching: Agriculture,* Spring 2022; Fall 2022 (Asynchronous Online Instruction) |
|  | - | | | *AGED 201 Introduction to Agricultural Education*, Fall 2021 (Synchronous Online Instruction) |
|  | - | | | *AGED 210 Directed Field Experience in Agricultural Education;* Fall 2021 (Synchronous Online Instruction) |
|  | - | | | *AGED 520 Supervised Teaching: Agriculture*; Fall 2021 (Asynchronous Instruction) |
|  | - | | | *AGRI 181 Coordinating Group Agricultural Activities,* Fall 2021; Fall 2022; Fall 2023; Spring 2024; Fall 2024; Spring 2025 (In-person Instruction) |
|  |  | | |  |
|  |  | | Graduate Advising | |
|  | - | | | Kayla Bowerman, *Effects of Socioeconomic Status on Student Participation in School Based Agricultural Education: The Perception of Agriculture Teachers*, Summer 2025 |
|  | - | | | Ashley Hautula, Comprehensive Examination, Spring 2025 |
|  | - | | | Jessica Hamilton, Comprehensive Examination, Spring 2025 |
|  | - | | | Jannie Ford, *Development of a High School Agricultural Department Graduate Survey Manual*, Spring 2024 |
|  | - | | | Jodi Faltesek, Comprehensive Examination, Spring 2024 |
|  | - | | | Aimee Maynard, Comprehensive Examination, Spring 2024 |
|  | - | | | Mary Jane Gwerder, Comprehensive Examination, Spring 2024 |
|  | - | | | Megan Rivera, Comprehensive Examination, Spring 2024 |
|  | - | | | Patricia Garcia, Comprehensive Examination, Fall 2023 |
|  | - | | | Samantha Schmidt, *Development of the West Hills College Coalinga Student Agriculture and Sustainability Club Manual*, Fall 2023 |
|  | - | | | Emily Fuller, *An Investigation of the Characteristics, Uses, Perceptions, and Barriers of School Farms in the Superior Region,* Spring 2023 |
|  | - | | | Cassidy Steenbock, Comprehensive Examination, Spring 2023 |
|  | - | | | Amador Martinez, Comprehensive Examination, Spring 2023 |
|  | - | | | Kathryn Walther, Comprehensive Examination, Spring 2023 |
|  | - | | | Donald Voltz, Comprehensive Examination, Fall 2022 |
|  | - | | | Cheyene Dack, Comprehensive Examination, Fall 2022 |
|  | - | | | Stetcyn L. Arrington, *The Development of a Walnut Cultivation Education Material for Elementary School Aged Children,* Summer 2022 |
|  |  | |  | |
|  |  | | Additional Assignments | |
|  | - | | | Agricultural Education Student Teacher Coordinator, 2024-2025 |
|  | - | | | Chico State and Butte College FFA Field Day Faculty Lead, 2021-2022; 2022-2023; 2023-2024; 2024-2025 |
|  | - | | | Agricultural Education Intern Boot Camp Facilitator, 2024 |
|  | - | | | CalTPA Agricultural Education Program Coordinator, 2022; 2023; 2024; 2025 |
|  | - | | | Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS) Faculty Advisor, 2022; 2023; 2024 |
|  | - | | | Faculty Academic Advisor, 2021; 2022; 2023; 2024; 2025 |
|  | - | | | AGED BBQ Committee Advisor, 2021 |
|  | - | | | Summer Freshmen Orientation, 2021; 2022; 2023; 2024 |
|  | - | | | Transfer Student Orientation, 2021; 2022; 2023; 2024 |
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| 2023 to 2025 | | | | |
|  | **California Teaching Performance Assessment Assessor** | | | |
|  | | | Pearson Assessments | |
|  | | |  | |
|  | | | - | Review teacher performance assessment materials |
|  | | | - | Assess performance materials for evidence of teacher effectiveness |
|  | | | - | Provide feedback on teacher performance assessments |
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| 2018 to 2021 | | | | |
|  | **Graduate Teaching Associate** | | | |
|  |  | | Department of Agricultural Education, Communications, and Leadership | |
|  |  | | Oklahoma State University | |
|  |  | |  | |
|  |  | | Teaching Assignments: | |
|  | - | | | *AGED 3203 Advising Agricultural Student Organizations and Supervising Experiential Learning*, Spring 2021, Lead Instructor (Hybrid Instruction) |
|  | - | | | *AGED 4103 Methods and Skills of Teaching and Management in Agricultural Education*, Fall 2020, Dr. Jon W. Ramsey (Hybrid Instruction) |
|  | - | | | *AGED 3203 Planning the Community Program in Agricultural Education,* Spring 2020, Dr. J. Shane Robinson (In-Person and Online Instruction) |
|  | - | | | *AGED 3203 Planning the Community Program in Agricultural Education,* Spring 2019, Dr. J. Shane Robinson (In-Person Instruction) |
|  | - | | | *AGED 3103 Foundations and Philosophy of Teaching Agricultural Education,* Fall 2018 and Fall 2019, Dr. Rob Terry, Jr. (In-Person Instruction) |
|  |  | |  | |
|  |  | | Student Teacher Supervisor Assignments: | |
|  | - | | | Aaron Beratto, Spring 2021 |
|  | - | | | Kenadee Billdt, Spring 2021 |
|  | - | | | Stephanie Mindemann, Spring 2021 |
|  | - | | | Kelsey Witt, Fall 2020 |
|  | - | | | Katelynn Priest, Spring 2020 |
|  | - | | | Haylee Smith, Spring 2020 |
|  | - | | | Kristen Walters, Fall 2019 |
|  | - | | | Maggie Brown, Spring 2019 |
|  | - | | | Bobby Ramming, Spring 2019 |
|  | - | | | Alex Walling, Fall 2018 |
|  | - | | | Haley Gibson, Fall 2018 |
|  |  | | |  |
|  |  | | Research Assignments: | |
|  | - | | | *New Frontiers Agriculture Hall Stakeholder Engagement Survey*, Dr. Randy Raper, 2020 |
|  | - | | | *Agricultural Career Experiences Grant*, Dr. J. Shane Robinson, 2019 to 2020 |
|  | - | | | *Biofuels Curriculum Grant*, Dr. J. Shane Robinson, 2019 |
|  | - | | | *Oklahoma Ag in the Classroom Curriculum Grant*, Audrey Harmon, 2018 to 2019 |
|  |  | | |  |
|  |  | | Additional Assignments: | |
|  | - | | | *OSU Collegiate FFA Alumni and Supporters*, Co-Sponsor, Dr. Jon W. Ramsey, 2019 to 2021 |
|  | - | | | *Prospective Graduate Student Tours,* Tour Guide, Dr. Rob Terry, Jr., 2018 to 2021 |
|  | - | | | *AGED 3101 Laboratory and Clinical Experiences in Agricultural Education*, Grader, Dr. Jon W. Ramsey, 2019 |
|  | - | | | *AGED 4103 Methods and Skills of Teaching and Management in Agricultural Education,* Grader, Dr. Jon W. Ramsey, 2019 |
|  | - | | | *Social Science Professional Development,* Event Organizer, Dr, Rob Terry, Jr., 2019 |
|  | - | | | *New Student Orientation*, Host, Dr. Rob Terry, Jr., 2019 |
|  | - | | | *Transfer Student Orientation,* Host, Dr. Rob Terry, Jr., 2019 |
|  |  | |  | |
| 2011 – 2018 | | | | |
|  | **Agricultural Education Instructor** | | | |
|  |  | | Sikeston Career and Technology Center | |
|  |  | | Sikeston Public Schools | |
|  |  | |  | |
|  |  | | Teaching Assignments: | |
|  | - | | | Agricultural Science and Technology |
|  | - | | | Greenhouse Production and Management |
|  | - | | | Equine Science and Management |
|  | - | | | Small Animal Production |
|  | - | | | Reptile Science |
|  | - | | | Agricultural Mechanics and Woodworking |
|  |  | | |  |
|  |  | | Curriculum for Agricultural Science Education (CASE) Certifications | |
|  | - | | | Introduction to Agriculture, Food, and Natural Resources |
|  | - | | | Principles of Agricultural Science - Plant |
|  |  | | |  |
|  |  | | Additional Assignments: | |
|  | - | | | Sikeston FFA Advisor |
|  | - | | | Student SAE Project Supervisor |
|  | - | | | Athletic Box Office Manager |

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| **Peer Reviewed Publications** | |
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| **Journal Articles** | |
|  | Vite, L., & **Toombs, J. M.** (2025). Hispanic and Latine undergraduate motivations to pursue an agricultural science degree. *NACTA Journal*. (Accepted for Publication) |
|  | Fuller, E. R., & **Toombs, J. M.** (2005). An investigation of the characteristics and uses of school farms in the California Superior Region. *Journal of Research in Technical Careers*. (Submitted for review) |
|  | Schager, A., **Toombs, J. M.**, White, D. (2023). Exploring the lived experiences of novice agriculture teachers in California: A phenomenological study. *Journal of Agricultural Education.* (Submitted for review) |
|  | **Toombs, J. M.**, Terry, R. Jr., Ramsey, J. W., Robinson, J. S. & Ivey, T. A. (2025). SBAE induction-year teachers’ self-perceived professional development needs: A mixed-methods study. *Journal of Agricultural Education*, *66*(1). https://doi.org/10.5032/jae.v66i1.2433 |
|  | **Toombs, J. M.**, Eck, C. J., & Robinson, J. S. (2022). The impact of a project-based learning experience on the SAE self-efficacy of preservice teachers. *Journal of Agricultural Education, 63*(1), 29-46. https://doi.org/10.5032/jae.2022.01029 |
|  | Eck, C. J., **Toombs, J. M.**, & Robinson, J. S. (2022). Measuring effective teaching components of school-based agricultural education teaching aspirants during the COVID-19 pandemic. *Journal of Southern Agricultural Education Research, 72*. http://jsaer.org/2022/03/15/measuring-effective-teaching-components-of-school-based-agricultural-education-teaching-aspirants-during-the-covid-19-pandemic/ |
|  | Teixeira, K. L., Terry, R. Jr., Inman, R. I., Cole, K. L., Robinson, J. S., & **Toombs, J. M.** (2021). Intent and content of a closed Facebook group for School-Based Agricultural Education Instructors in California. *Journal of Agricultural Education, 62*(4), 173-193. https://doi.org/10.5032/jae.2021.04173 |
|  | Eck, C. J., **Toombs, J. M.**, & Robinson, J. S. (2021). Intent to teach: Perspectives from pre-service agricultural education teachers. *Journal of Agricultural Education, 62*(1), 212-226. https://doi.org/10.5032/jae.2021.01212 |
|  | **Toombs, J. M.**, & Ramsey, J. W. (2020). Potential mentoring impacts on Oklahoma induction-year school-based agricultural education teachers: A modified-Delphi study. *Journal of Research in Technical Careers, 4*(2), 39-54. https://digitalscholarship.unlv.edu/jrtc/vol4/iss2/4/ |
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| **Paper Presentations** | |
|  | Holguin, K. M., & **Toombs, J. M.** (2024). *Professional quality of life for California State University, Chico SBAE student teachers* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference. Chico, CA. |
|  | Vite, L., & **Toombs, J. M.** (2023, September 18-20). *Latino undergraduate motivations to pursue an agricultural science degree* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference. Logan, UT. |
|  | Fuller, E., **Toombs, J. M.**, & Aschenbrener, M. S. (2023, September 18-20). *An investigation of the perceptions and barriers of school farms* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference. Logan, UT. |
|  | **Toombs, J. M.**, Terry, R. Jr., Ramsey, J. W., Robinson, J. S. & Ivey, T. A. (2023, May 15-18). *SBAE induction-year teachers’ self-perceived professional development needs: A mixed-methods study* [Paper presentation]. National American Association for Agricultural Education (AAAE) Research Conference, Raleigh, NC. |
|  | **Toombs, J. M.** (2022, September 19-21). *Costs associated with work-life balance as perceived by preservice school-based agricultural education teachers* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Las Cruces, NM. |
|  | **Toombs, J. M.**, Terry, R. Jr., Ramsey, J. W., Robinson, J. S. & Ivey, T. A. (2022, September 19-21). *SBAE induction-year teachers’ self-perceived professional development needs: A mixed-methods study* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Las Cruces, NM. |
|  | **Toombs, J. M.**, Brown, C. P., & Stevens, N. (2021, September 27-29). *SBAE preservice teachers’ comfort in teaching diverse students* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Bozeman, MT. |
|  | **Toombs, J. M.**, & Robinson, J. S. (2021, September 27-29). *The impact of course changes on preservice teachers’ SAE self-efficacy* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Bozeman, MT. |
|  | Derma, E., **Toombs, J. M.**, Terry, R. Jr., Ramsey, J. W., & Smith, N. A. (2021, September 27-29). *Student teaching through the pandemic: A comparison of experiences for the Spring 2020 Cohort to Previous Cohorts* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Bozeman, MT. |
|  | **Toombs, J. M.**, Eck, C. J., & Robinson, J. S. (2021, May 24-27). *Using preservice teacher SAE self-efficacy to evaluate course impact* [Paper presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | Teixeira, K. L., Terry, R. Jr., Inman, R. I., Cole, K. L., Robinson, J. S., & **Toombs, J. M.** (2021, May 24-27). *Are they engaged?: An examination of the comment and reaction rates of posts in a closed Facebook group for School-based agricultural education instructors in California* [Paper presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Eck, C. J., & Robinson, J. S. (2021, February 8-10). *Using preservice teacher SAE self-efficacy to evaluate course impact* [Paper presentation]. Southern Region American Association for Agricultural Education (AAAE) Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Eck, C. J., & Robinson, J. S. (2020, September 21-23). *Preservice teacher SAE self-efficacy* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Eck, C. J., Teixeira, K. L., Smith, N. A., & Ramsey, J. W. (2020, September 21-23). *Pre-clinical experience feedback: Before and after COVID-19 social distancing measures* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Virtual Conference. |
|  | Teixeira, K. L., Terry, R. Jr., Inman, R. I., Cole, K. L., Robinson, J. S., & **Toombs, J. M.** (2020, September 21-23). *What are they talking about?: Identifying the intent and content of a closed Facebook group for school-based agricultural education instructors in California* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Virtual Conference. |
|  | Teixeira, K. L., Terry, R. Jr., Inman, R. I., Cole, K. L., Robinson, J. S., & **Toombs, J. M.** (2020, September 21-23). *Are they engaged?: An examination of the comment and reaction rates of posts in a closed Facebook group for School-based agricultural education instructors in California* [Paper presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, & Ramsey, J. W. (2020, May 18-21). *SBAE student teachers’ sense of importance and competence per selected National Quality Program Standards indicators: A then-now Borich needs assessment* [Paper presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, & Ramsey, J. W. (2020, May 18-21). *Mentoring impacts on Oklahoma induction year school-based agricultural education teachers: A modified Delphi study* [Paper presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, & Ramsey, J. W. (2020, February 1-4). *SBAE student teachers’ sense of importance and competence per selected National Quality Program Standards indicators: A then-now Borich needs assessment* [Paper presentation]*.* Proceedings of the 2020 Southern Region American Association for Agricultural Education (AAAE) Research Conference, Louisville, KY. |
|  | Eck, C. J., **Toombs, J. M.**, & Robinson, J. S. (2020, February 1-4). *Intent to teach: Perspectives from pre-service agricultural education teachers* [Paper presentation]*.* Southern Region American Association for Agricultural Education (AAAE) Research Conference, Louisville, KY. |
|  | **Toombs, J. M.**, & Ramsey, J. W. (2019, September 16-19). *Mentoring impacts on Oklahoma induction year school-based agricultural education teachers: A modified Delphi study* [Paper presentation]*.* Western Region American Association for Agricultural Education (AAAE) Research Conference, Anchorage, AK. |
|  | **Toombs, J. M.**, Terry, R. Jr., Robinson, J. S., & Weeks, P. P. (2019, May 21-24). *Teacher locus of control and teacher self-efficacy of agricultural educators in Southeast Missouri* [Paper presentation]*.* National American Association for Agricultural Education (AAAE) Research Conference, Des Moines, IA. |
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| **Poster Presentations** | |
|  | Cole, S. C., & **Toombs, J. M.** (2024). School-Based Agricultural Education Teachers’ Comfort Levels in Students’ Identities. [Poster presentation]. National American Association for Agricultural Education (AAAE) Research Conference, Lubbock, TX. |
|  | Cole, S. C., & **Toombs, J. M.** (2024). Work-life balance cost analysis. [Poster presentation]. National American Association for Agricultural Education (AAAE) Research Conference, Lubbock, TX. |
|  | Ford, J. L., & **Toombs, J. M.** (2024). Describing the impacts of group work on leadership traits. [Poster presentation]. National American Association for Agricultural Education (AAAE) Research Conference, Lubbock, TX. |
|  | Ford, J. L., & **Toombs, J. M.** (2024). Describing the impacts of group work on leadership traits. [Poster presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Chico, CA. |
|  | Cole, S. C., & **Toombs, J. M.** (2024). Work-life balance cost analysis. [Poster presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Chico, CA. |
|  | **Toombs, J. M.** & Vierra, R. (2023). *Costs associated with work-life balance as perceived by preservice school-based agricultural education teachers* [Poster presentation]. National American Association for Agricultural Education (AAAE) Research Conference, Raleigh, NC. |
|  | Vierra, R., Henderson, T. M., & **Toombs, J. M.** (2022). Finding the inner jíbaro: A short-term high-impact immersion to Puerto Rico. [Poster presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Las Cruces, NM. |
|  | **Toombs, J. M.**, Terry, R., Jr., Ramsey, J. W., Robinson, J. S., & Ivey, T. A. (2021). Self-efficacy of induction-year school-based agricultural education teachers [Poster presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Bozeman, MT. |
|  | **Toombs, J. M.**, Terry, R., Jr., Ramsey, J. W., Robinson, J. S., & Ivey, T. A. (2021, May 24-27). Changes in induction-year teachers’ self-efficacy over the fall semester [Poster presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Rankin, K. R. L. III., Manuel, E. O., Sewell, E. A., & Terry, R. Jr. (2021, May 24-27). Roles of a school-based agricultural education teacher: Changes in perceptions of preservice teachers [Poster presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Rankin, K., Smith, N. A., & Ramsey, J. W. (2021, May 24-27). *Virtual Preservice Observations in the COVID-19 Era* [Poster presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Raper, R., & Terry, R. Jr. (2021, May 24-27). Important components of teaching spaces in university facilities [Poster presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Rankin, K., Smith, N. A., & Ramsey, J. W. (2021, February 8-10). *Virtual Preservice Observations in the COVID-19 Era* [Poster presentation]. Southern Region American Association for Agricultural Education (AAAE) Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, & Terry, R. Jr. (2020, September 21-23). *A holistic approach to teacher self-efficacy* [Poster presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Mott, R., & Terry, R. Jr. (2020, May 18-21). *Filling the gap: A case study of an emergency certified Oklahoma SBAE teacher* [Poster presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Teixeira, K. L., Terry, R. Jr., Robinson, J. S., & Ramsey, J. W. (2020, May 18-21). *Professional development for social science agriscience fair CDE projects* [Poster presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | Eck, C. J., **Toombs, J. M.**, & Ramsey, J. W. (2020, May 18-21). *Purposeful Video Reflection: A program-wide Swivl adoption* [Poster presentation]*.* American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, & Ramsey, J. W. (2020, May 18-21). *Evaluating a teacher recruitment program: Boom or bust?* [Poster presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | Stevens, N., **Toombs, J. M.**, & Robinson, J. S. (2020, May 18-21). *Self-efficacy of Oklahoma SBAE teachers in introductory animal science standards* [Poster presentation]. American Association for Agricultural Education (AAAE) Annual National Research Conference, Virtual Conference. |
|  | **Toombs, J. M.**, Teixeira, K. L., Terry, R. Jr., Robinson, J. S., & Ramsey, J. W. (2020, February 1-4). *Professional development for social science agriscience fair CDE projects* [Poster presentation]. Southern Region American Association for Agricultural Education (AAAE) Research Conference, Louisville, KY. |
|  | Eck, C. J., **Toombs, J. M.**, & Ramsey, J. W. (2019, September 21-23). *Purposeful Video Reflection: A program-wide Swivl adoption* [Poster presentation]. Western Region American Association for Agricultural Education (AAAE) Research Conference, Anchorage, AK. |
|  | Teixeira, K. L., Eck, C. J., **Toombs, J. M.**, & Robinson, J. S. (2019, May 21-24). *Teach Ag digital escape room* [Poster presentation]. National American Association for Agricultural Education (AAAE) Research Conference, Des Moines, IA. |
|  | **Toombs, J. M.**, Eck, C. J., Teixeira, K. L., Terry, R. Jr., Robinson, J. S., Smith, N. A., & Ramsey, J. W. (2019, May 21-24). *A short-term SBAE teacher in residence program* [Poster presentation]. National American Association for Agricultural Education (AAAE) Research Conference, Des Moines, IA. |
|  | **Toombs, J. M.**, Terry, R. Jr., Robinson, J. S., & Weeks, P. P. (2018, September 17-19). *Teacher locus of control and self-efficacy of school-based agricultural education teachers* [Poster presentation]*.* Western Region American Association for Agricultural Education (AAAE) Research Conference, Boise, ID. |

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| **Invited Presentations** | |
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| **Toombs, J. M.** (2025, July 8). *Artificial intelligence usage in agriculture*. Presented to Glenn County Office of Education Summer Institute (*n* = 12). | |
| **Toombs, J. M.** (2025), June 26). *State standards and learning objectives* Presented to Challenge 24(*n* =10). | |
| **Toombs, J. M.** (2025, January 9). *Special education students in your agricultural education program*. Presented to Student Teacher Conclave (*n* = 83). | |
| **Toombs, J. M.** (2024, August 1). *Differentiating instruction for individualized education plans and 504s*. Presented to School of Education Intern Boot Camp (*n =* 15). | |
| **Toombs, J. M.** (2024, May 10). *Salary schedules*. Presented to AGED 521 (*n =12)*. | |
| **Toombs, J. M.** (2024, January 12). *Mock interviews*. Facilitated to Student Teacher Conclave (*n* = 83*).* | |
| **Toombs, J. M.** (2024, January 11). *Special education students in your agricultural education program*. Presented to Student Teacher Conclave (*n* = 78). | |
| **Toombs, J. M.** (2023, January 5). *Special education students in your agricultural education program*. Presented to Student Teacher Conclave (*n* = 78). | |
| **Toombs, J. M.** & Aschenbrener, M. S.(2022, August 9-10). *Engaging students through activities and questioning*. Presented to California FFA State Officer Training (*n* = 7). | |
| **Toombs, J. M.** (2022, January 6). *Special education students in your agriculture classroom*. Presented to Student Teacher Conclave (*n* = 73). | |
| **Toombs, J. M.** (2021, February 11). *Differentiating instruction for individualized education plans and 504s*. Presented to AGED 4103 (*n* = 7). | |
| **Toombs, J. M.** (2021, August 20). *Using self-efficacy to motivate students*. Presented to student teachers in AGED 4203 (*n* = 8). | |
| **Toombs, J. M.** (2021, January 21). *Using self-efficacy to motivate students*. Presented to student teachers in AGED 4203 (*n* = 28). | |
| **Toombs, J. M.** (2020, October 13). *Mixed methods and action research methodologies.* Presented to AECL 5983 (*n* = 12). | |
| **Toombs, J. M.**, & Teixeira, K. L. (2020, September 16). *Personal and social learner characteristics*. Presented to AGED 3103 (*n* = 47). | |
| **Toombs, J. M.** (2020, August 20). *Differentiating instruction for individualized education plans and 504s*. Presented to student teachers in AGED 4203 (*n* = 8). | |
| **Toombs, J. M.** (2020, August 20). *Using self-efficacy to motivate students*. Presented to student teachers in AGED 4203 (*n* = 8). | |
| **Toombs, J. M.** (2020, August 20). *SWIVL video recording refresher.* Presented to student teachers in AGED 4203 (*n* = 8). | |
| **Toombs, J. M.** (2020, February 3) (recorded). Using national quality program standards for SBAE program improvement [Audio podcast episode]. In *Owl Pellets: Tips for Ag Teachers*. | |
| **Toombs, J. M.** (2020, January 25). *Differentiating instruction for individualized education plans and 504s*. Presented to student teachers in AGED 4203 (*n* = 28). | |
| **Toombs, J. M.**, & Eck, C. J. (2019, December 10). *What’s in your toolbox?: The value, structure, and leadership development potential of School-based Agricultural Education*. Workshop presentation at the Intertribal Agriculture Council Youth Development Conference (*n* = 150). | |
| **Toombs, J. M.**, Martinez, M., Sawney, W., Parker, E., & Ovando, M. (2019, December 11). *National impact of youth in Indian Country*. Panel discussant at the Intertribal Agriculture Council Youth Development Conference (*n* = 150). | |
| **Toombs, J. M.**, & Wiedenmann, C. (2019, December 5). *Introduction to Curriculum for Agricultural Science Education (CASE)*. Presented to pre-clinical teachers in AGED 4103 (*n* = 35). | |
| **Toombs, J. M.** (2019, November 1).*Professionalism in and out of the classroom*. Presented to AGED 3101 (*n* = 48). | |
| **Toombs, J. M.** (2019, October 30). *Formulating and using learning activities*. Presented to preservice teachers in AGED 3103 (*n* = 52). | |
| **Toombs, J. M.**, & Teixeira, K. L. (2010, September 23). *Characteristics of learners*. Presented to preservice teachers in AGED 3103 (*n* = 52). | |
| **Toombs, J. M.** (2019, August 22). *Differentiating instruction for individualized education plans and 504s*. Presented to student teachers in AGED 4203 (*n* = 12). | |
| **Toombs, J. M.** (2019, July 22). *Sampling Methods and Implications.* Workshop presented at the Social Science Agriscience Professional Development for Oklahoma Agricultural Education Teachers (*n* =10). | |
| **Toombs, J. M.**, & Teixeira, K. L. (2019, July 22). *Quantitative and Qualitative Methodologies*. Workshop presented at the Social Science Agriscience Professional Development for Oklahoma Agricultural Education Teachers (*n* =10). | |
| Ramsey, J. R., Robinson, J. S., **Toombs, J. M.**, & Eck, C. J. (2019, July 10). *Preparation of agricultural educators in the US*. Panel discussant to Mandela Washington Fellowship Institute (*n* =25). | |
| **Toombs, J. M.** & Eck, C. J. (2019, March 13). *Using National Quality Program Standards to assess SBAE programs*. Presented to preservice teachers in AGED 3203 (n *=* 43). | |
| **Toombs, J. M.** (2019 January 16). *Differentiating instruction for individualized education plans and 504s*. Presented to student teachers in AGED 4203 (*n* = 18). | |
| Teixeira, K. L., & **Toombs, J. M.** (2018, September 28). *Classroom procedures*. Presented to preservice teachers in AGED 3203 (*n* = 47). | |
| Smith, N., & **Toombs, J. M.** (2018, August 22). *Motivating participation in Career Development Events.* Presented to student teachers in AGED 4203 (*n* = 8). | |
| **Toombs, J. M.** (2018, August 21). *Differentiating instruction for individualized education plans and 504s*. Presented to student teachers in AGED 4203 (*n* = 8). | |

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| **Service to the Profession** | | | |
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| **Michigan State University** | | |  |
| - | Challenge 24, Facilitator, 2025 | |  |
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| **Michigan Association of Agriscience Educators** | | |  |
| - | New and Early Career Teachers Workshop, Facilitator, 2025 | |  |
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| **California State University, Chico** | | |  |
| - | Chico State and Butte College Field Day, Faculty Lead, 2021-2022; 2022-2023; 2023-2024; 2024-2025 | |  |
| - | Superior Ag Board of Directors, Program Representative, 2024 | |  |
| - | College of Agriculture Awards and Scholarship Committee, Member, 2024 | |  |
| - | University Writing Committee, Member, 2024 | |  |
| - | College of Agriculture RTP Standards Review Committee, 2021-2022; 2022-2023; 2023-2024 | |  |
| - | Grade Appeal Committee, 2022-2023 | |  |
| - | Livestock Judging 101 Tabulations Chair, 2022 | |  |
| - | Animal Science 330L Presentation Evaluator, 2021 | |  |
| - | Superior Ag Golf Classic Volunteer, 2021, 2022, 2023 | |  |
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| **California FFA Association** | | |  |
| - | State Parliamentary Procedure Tabulations Chair, 2024 | |  |
| - | Superior Region Parliamentary Procedure Tabulations Chair, 2024 | |  |
| - | West Coast Elite Sheep and Goat Judging Contest Scorer, 2023; 2024 | |  |
| - | State Agriscience Fair Judge, 2022; 2023; 2024 | |  |
| - | Gridley Field Day Event Scorer, 2023, 2024 | |  |
| - | Superior Region Extemporaneous Speaking Judge, 2022; 2023; 2024 | |  |
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| **United States Department of Agriculture** | | |  |
| - | National Institute of Food and Agriculture Grant Reviewer, 2024 | |  |
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| **National Council for Agricultural Education** | | |  |
| - | National Quality Program Standards Educator Success Work Group, Member, 2024 | |  |
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| **California Agriculture Teacher’s Association** | | |  |
| - | Student Teacher Conclave Mock Interview Facilitator, 2024 | |  |
| - | Superior Regional Meeting Host, 2023 | |  |
| - | Student Teacher Conclave Mock Interviewer, 2022; 2023 | |  |
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| **Glenn County 4-H** | | |  |
| - | Livestock Judging Day, Tabulations Scorer, 2024 | |  |
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| **Nevada FFA Association** | | |  |
| - | Nevada FFA Convention, Career Development Event Scorer, 2022 | |  |
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| **American Association of Agricultural Educators** | | |  |
| - | Western Region Conference Host, 2024 | |  |
| - | Western Region Program Improvement Committee Chair, 2023-2024 | |  |
| - | Journal of Agricultural Education Reviewer, 2022-Present | |  |
| - | National Program Improvement Committee Member, 2021-2024 | |  |
| - | Western Region Program Improvement Committee Member, 2021-2024 | |  |
| - | National Research Conference Manuscript Reviewer, 2022; 2023 | |  |
| - | Western Region Conference Poster Reviewer, 2021; 2023 | |  |
| - | National Research Conference Session Facilitator, 2021 | |  |
| - | National Research Conference Poster Reviewer, 2021; 2023; 2024 | |  |
| - | Southern Region Conference Poster Reviewer, 2021 | |  |
| - | Southern Region Conference Research Session Facilitator, 2020 | |  |
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| **Oklahoma State University** | | |  |
| - | Ferguson College of Agriculture New Student Welcome, 2020 | | |
| - | Undergraduate Research Mentor, 2019, 2020 | | |
| - | Graduate Research Mentor, 2019, 2020 | | |
| - | Mandela Washington Fellowship Project Proposal Judge, 2019 | | |
| - | Professional Education Unit Interviewer, 2019, 2018 | | |
| - | Graduate Student Association Representative, 2018, 2019 | | |
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| **Association of Career and Technical Education Research** | | | |
| - | Research and Professional Development Conference Session Host, 2020 | | |
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| **National FFA Organization** | | |  |
| - | National Agriscience Fair Paper Judge, 2025 | | |
| - | Grants for Growing Reviewer, 2024 | | |
| - | National Agricultural Issues Portfolio Judge, 2023 | | |
| - | National Proficiency Award Judge, 2018 | | |
| - | Supervised Agricultural Experience Grant Reviewer, 2018, 2019, 2021, 2022 | | |
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| **American Farmers and Ranchers** | | |  |
| - | State Speech Contest Judge, 2018, 2019 | | |
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| **Oklahoma State Science and Engineering Fair** | | | |
| - | Division I State Science Fair Judge, Social and Behavioral Sciences, 2021 | | |
| - | Division II State Science Fair Judge, Social and Behavioral Sciences, 2021 | | |
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| **Oklahoma FFA Association** | | | |
| - | Piedmont FFA Officer Election Interviewer, 2024 | | |
| - | State Agriscience Fair Assistant Director, 2021 | | |
| - | State Career Development Event Scorer, 2021 | | |
| - | National Chapter Award Program Reviewer, 2019 | | |
| - | State Agriscience Fair Assistant Director, 2019 | | |
| - | State Prepared Public Speaking Contest Judge, 2019 | | |
| - | State Career Development Event Scantron Scorer, 2019 | | |

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| **Technology Proficiencies** | |
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| - | Reflexivity Collaboration Platform |
| - | Canvas Learning Management System |
| - | Blackboad Learning Management System |
| - | IBM Statistical Package for Social Sciences (SPSS) |
| - | Livetext by Watermark |
| - | ATLAS.ti Qualitative Database Software |
| - | Microsoft Office Suite |
| - | The R Project for Statistical Computing |
| - | Scientific Software International’s HLM |
| - | SWIVL Video Collaboration |
| - | Zoom Video Conferencing |

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| **Professional Accomplishments** | |
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| - | 2024 College of Agriculture Faculty of the Year, California State University, Chico |
| - | 2020 Second Place 3-Minute Thesis Competition Preliminary Round, Oklahoma State University Graduate College |
| - | 2020 Robberson Dissertation Fellow, Oklahoma State University Graduate College |
| - | 2020 James A. & Hattie Barker Scholarship Recipient, Oklahoma State University Department of Agricultural Education, Communications & Leadership |
| - | 2019 Outstanding Innovative Poster Presentation for *Teach ag digital escape room*, Southern Region American Association of Agricultural Educators |
| - | 2017 – 2018 Missouri Vocational Agricultural Teachers Association Area President |
| - | 2016 – 2017 Missouri Vocational Agricultural Teachers Association Area Vice President |
| - | 2015 – 2016 Missouri Vocational Agricultural Teachers Association Area Secretary |

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| **Grant Funding** | |
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| - | **Western Sustainable Agriculture Research and Education**, *Developing and Promoting Intercropping in California’s Perennial and Annual Agroecosystems*, with Hossein Zakeri, Mina Hejazi, Margaret Smither-Kopperl, Arun Jani, Ryan Hill, Debankur Sanyal, and Kyle Brasier, $350,000 requested, 2024 (awarded contingent on funding availability) |
| - | **Student Learning Fees**,$20,000 funded, 2023 |
| - | **Grimm Family Endowment**, with Thomas Henderson as Co-PI, $7,500 funded, 2023 |
| - | **Governor’s Research Award**,with Leslie Vite as Co-PI $1,000 funded, 2023 |
| - | **College of Agriculture RESP Incentive Funds**, $2,000 funded, 2023 |
| - | **Agricultural Research Institute SEED Funding**, $5,000 funded, 2023 |
| - | **College of Agriculture RESP Incentive Funds**, $2,000 funded, 2022 |
| - | **Governor’s Research Award**,with Leslie Vite as Co-PI $680 funded, 2022 |
| - | **Agricultural Research Institute SEED Funding**, $5,000 funded, 2022 |
| - | **College of Agriculture RESP Incentive Funds**, $1,500 funded, 2021 |
| - | **DuPont Pioneer Curriculum for Agricultural Science Education (CASE) Grant**, $5,000 funded, 2016 |
| - | **DuPont Pioneer Curriculum for Agricultural Science Education (CASE) Grant**, $5,000 funded, 2015 |

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| **Professional Organization Membership** | |
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| - | **American Association for Agricultural Education**, 2017 – Present |
| - | **North American Colleges and Teachers of Agriculture**, 2021 – Present |
| - | **Association for Career and Technical Education Research**, 2020 – Present |
| - | **California Agriculture Teachers’ Association**, 2021 – 2025 |
| - | **1st Generation Faculty and Staff Association**, 2021 – 2025 |
| - | **Agricultural Education, Communications, and Leadership Graduate Student Association**, 2018 – 2021 |
| - | **Phi Kappa Phi**, 2017 – 2021 |
| - | **National Association of Agricultural Education**, 2011 – Present |
| - | **Missouri Vocational Agriculture Teachers Association**, 2011 – 2018 |
| - | **Missouri State Teacher’s Association**, 2011 – 2018 |

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| **Professional Certifications** | | | |
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| - | | **Institutional Review Board Social, Behavioral, and Educational Researchers**,California State University, Chico, 2021 – 2024 | |
| - | | **Internet/Online Research Methodologies**, California State University, Chico, 2021 – 2024 | |
| - | | **Research in Elementary/Secondary Schools**, California State University, Chico, 2021 – 2024 | |
| - | | **Research with Students**, California State University, Chico, 2021 – 2024 | |
| - | | **Missouri Teaching Career Continuous Professional Certification**, Agricultural Education, Grades 9-12, 2010 – 2114 | |
| - | | **Curriculum for Agricultural Science Education**, Introduction to Agriculture, Food, and Natural Resources, 2016 – Life | |
| - | | **Curriculum for Agricultural Science Education**, Principles of Agricultural Science-Plant, 2015 – Life | |

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| **Professional Development** | | | |
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| - | | National Research Conference of the American Association of Agricultural Education, 2025 | |
| - | | Western Region Research Conference of The American Association of Agricultural Education, 2024 | |
| - | | California Agriculture Teacher’s Association Summer Conference, 2024 | |
| - | | National Research Conference of the American Association of Agricultural Education, 2024 | |
| - | | Western Region Research Conference of The American Association of Agricultural Education, 2023 | |
| - | | National Research Conference of the American Association of Agricultural Education, 2023 | |
| - | | North Coast Region California Agriculture Teachers’ Association Meeting, 2023 | |
| - | | San Joaquin Region California Agriculture Teachers’ Association Meeting, 2022 | |
| - | | Western Region Research Conference of The American Association of Agricultural Education, 2022 | |
| - | | Meredith Fellows Conference for Teacher Performance Assessments, 2022; 2023 | |
| - | | CATA Summer Conference, 2022 | |
| - | | CalTPA Program Coordinators Meeting, 2022; 2023 | |
| - | | Superior Region California Agriculture Teachers’ Association Meeting, 2021 | |
| - | | I Can Help Suicidal Awareness Training, 2021 | |
| - | | Western Region Research Conference of The American Association of Agricultural Education, 2021 | |
| - | | First Gen Webinar, The Chronicle of Higher Education, 2021 | |
| - | | First Year Faculty RTP Meeting, 2021 | |
| - | | North American College Teachers of Agriculture Virtual Conference, 2021 | |
| - | | National Research Conference of The American Association of Agricultural Education, 2021 | |
| - | | Ferguson College of Agriculture Diversity, Inclusion, and Equity in Teaching Workshop, Spring 2021 | |
| - | | IES Grant Writing Workshop, Spring 2021 | |
| - | | Faculty Preparation Seminars, Spring 2021 | |
| - | | Ferguson College of Agriculture Teaching Workshop, Spring 2021 | |
| - | | Campus-wide OkState Graduate Teaching Assistant Workshop, Spring 2021 | |
| - | | Association for Career and Technical Education Research and Professional Development Conference, 2020 | |
| - | | American Association for Agricultural Education Diversity and Inclusion Webinar, 2020 | |
| - | | Western Region Research Conference of The American Association of Agricultural Education, 2020 | |
| - | | Faculty Preparation Seminars, Fall 2020 | |
| - | | Campus-wide OkState Graduate Teaching Assistant Workshop, Fall 2020 | |
| - | | Supporters of Beginning Agriculture Teachers Digital Conference, 2020 | |
| - | | National Research Conference of The American Association of Agricultural Education, 2020 | |
| - | | Southern Region Research Conference of The American Association of Agricultural Education, 2020 | |
| - | | Faculty Preparation Seminars, Spring 2020 | |
| - | | Campus-wide OkState Graduate Teaching Assistant Workshop, Spring 2020 | |
| - | | Western Region Research Conference of The American Association of Agricultural Education, 2019 | |
| - | | Faculty Preparation Seminars, Fall 2019 | |
| - | | College of Agriculture Science and Natural Resources Teaching Workshop, Fall 2019 | |
| - | | Campus-wide OkState Graduate Teaching Assistant Workshop, Fall 2019 | |
| - | | National Research Conference of The American Association of Agricultural Education, 2019 | |
| - | | Faculty Preparation Seminars, Spring 2019 | |
| - | | College of Agriculture Science and Natural Resources Teaching Workshop, Spring 2019 | |
| - | | Campus-wide OkState Graduate Teaching Assistant Workshop, Spring 2019 | |
| - | | Scholarship of Teaching and Learning, Fall 2018 | |
| - | | Western Region Research Conference of The American Association of Agricultural Education, 2018 | |
| - | | Faculty Preparation Seminars, Fall 2018 | |
| - | | College of Agriculture Science and Natural Resources Teaching Workshop, Fall 2018 | |
| - | | Campus-wide OkState Graduate Teaching Assistant Workshop, Fall 2018 | |