

CURRICULUM VITAE

CV SECTION 1: Employment History/Awards

NAME

Kellie Jo Enns

ADDRESS

Colorado State University
Department of Agricultural and Resource Economics

PHONE

[REDACTED]

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CSU ARDEC

[REDACTED]

EDUCATION

- 2008 PhD, Education and Human Resource Studies, Emphasis in Educational Leadership, Colorado State University, Fort Collins, CO
- 1996 Master of Agriculture and Completion of Teacher Licensure Program, Colorado State University, Fort Collins, CO
- 1993 Bachelor of Science, Animal Science, Washington State University, Pullman, WA

ACADEMIC POSITIONS

- (2016-Present) Associate Professor, Agricultural Education, Colorado State University
- (2008-2016) Assistant Professor, Agricultural Education, Colorado State University
- (2007-2008) Instructor, Agricultural Education, School of Education and College of Agricultural Sciences, Colorado State University
- (2005-2007) Graduate Teaching Assistant, University Student Teaching Supervisor, Agricultural Education, Colorado State University

OTHER POSITIONS

- (2005-May 2007) Ag Ed Mentor, Colorado Community College System, Denver
- (2004-2006) Independent Curriculum Writing
 - Co-Wrote integration strategies for LifeKnowledge, "Substitute Teachers Guide," and "Living to Serve Civic Engagement Curriculum," for National FFA Organization, Indianapolis, IN
 - Co-Wrote Colorado Agricultural Education Agribusiness Curriculum, Colorado Agricultural Education Plant Science Curriculum, and Colorado Agricultural Education Animal Science Curriculum, for Colorado Community College System, Denver, CO
- (1996-2005) Secondary Agricultural Education Instructor and FFA Advisor, (2001-2005) Secondary Vocational Administrator, Valley High School, Gilcrest, CO (1997-2005), Rifle High School, Rifle, CO (1996-1997)

CURRENT JOB DESCRIPTION

70 % Teaching 0 % Research/Creative Activity 30 % Service/Outreach 0 % Admin

I currently do not hold a research appointment. In consultation with my Department Head and the previous Dean of the College of Agricultural Sciences, considering the significant activities of a program lead, rapid expansion of programmatic spaces, and extensive work in engagement efforts, it was necessary to better focus on a two-way split appointment (teaching – where I will discuss the programmatic development spaces) and service/outreach. I realize the critical role of research and inquiry and do and will utilize skills to further the work of the program and CAS.

HONORS AND AWARDS

- 2022 Distinguished Community Engagement Scholarship Award, College of Agricultural Sciences, Fort Collins, CO
- 2021 Colorado Vocational Agriculture Teachers Association 25-year service award, Colorado Vocational Agriculture Teachers Association, Sterling, CO
- 2018 National Association of Agricultural Educators Regional Citation Award
- 2018 Honorary American FFA Degree, National FFA Organization, Indianapolis, IN
- 2018 Charles N. Shepardson, NACTA Meritorious Teaching Award, College of Agricultural Sciences, Colorado State University, Fort Collins, CO
- 2016 College of Agricultural Sciences, Faculty in Residence, Lincoln University, New Zealand
- 2014 New Teacher Award, USDA Food and Agriculture Sciences Excellence in Teaching Award, Association for Public and Land Grant Institutions, Orlando, FL
- 2014 Jack E. Cermak University-wide Advising Award, Colorado State University, Fort Collins, CO
- 2013 Outstanding Extension Project, Western Association for Agriculture Economics, San Diego, CA
- 2013 Waterpik Excellence in Education Award, CSU Athletic Department, Fort Collins, CO
- 2012 College of Agricultural Sciences Outstanding Advising Award, Fort Collins, CO
- 2012 Distinguished Manuscript for American Association for Agricultural Education Research Meetings, Asheville, NC
- 2012 Outstanding Colorado Young Farmer Chapter, Runner-up, Colorado Young Farmer Educational Association, Denver, CO
- 2011 Charles N. Shepardson Faculty Teaching Award, College of Agricultural Sciences, Ft. Collins, CO
- 2010 Glenn Schmeckle Memorial Outstanding Colorado Young Farmer Educational Association Advisor, Colorado Young Farmer Educational Association, Denver, CO
- 2009 Honorary State FFA Degree, Colorado FFA Association, Denver, CO

CV SECTION 2: Publications/Scholarly Record

It is important to me to exemplify critical pursuit in the scholarship of teaching and learning (SoTL) even though I do not currently hold a research appointment due to significant programmatic obligations around program lead and management. Nevertheless, pursuing critical questions and advancing teaching and learning in agriculture are always a focus in my daily work and pursuits. SoTL is defined as the “systematic study of teaching and learning, using established or validated criteria of scholarship, to understand how teaching (beliefs, behaviors, attitudes, and values) can maximize learning and/or develop a more accurate understanding of learning, resulting in products that are shared for critique and used by an appropriate community” (Potter & Kustra, 2011, p 4). SoTL and particularly the guideposts to developing individual and corporate SoTL put forth by Felton (2013) is designed to incorporate both effective teaching and meaningful learning, and is the basis for both my scholarly record, and efforts in teaching and outreach/engagement. I have explored student learning in scholarly publications (NACTA Journal, Journal of Agricultural Education), national and regional research conferences, trade publications (Ag Ed Magazine, NACTA Teaching Tips), as well as invited presentations and lectures associated with student learning (National Ag in the Classroom, Lincoln University Center of Excellence presentations, Professional Development Presentations at Colorado Vocational Agricultural Teachers Conferences). My work is grounded in scholarly theory and applied to local contexts (appointment structure, class size differences). My scholarship has utilized theoretical and

conceptual frameworks of effective teaching, experiential learning, active learning, Problem-Based Learning (PBL), and agricultural literacy. I have accounted for significant contextual differences in geographic location, student demographic, class size and purpose, and educational objectives. I have employed appropriate and sound methods of inquiry, including action research, quantitative analysis, qualitative analysis, content analysis, descriptive statistical exploration, and others depending on the specific research question and context. Most scholarship outputs have had student collaborations as writers/editors of curriculums, co-publishers in trade publications, or integral members of research and editing teams. Students are denoted with an * in the list of scholarly outputs. I value public-facing publications where my work can be accessed, utilized, evaluated, and critiqued. This has occurred in almost all efforts around my teaching and learning efforts, from formal journal publications to trade journals to publicly available (and edited) curriculums. “As SoTL is iterative and highly contextual, the most appropriate ways to go public should capture and reflect the evolving nature of this form of research. In many cases, that is not possible in traditional scholarly journals. Regardless of the format, however, good practice in SoTL requires that both the process and the products of inquiry are public so that colleagues can critique and use the work” (Felten, 2013, p. 123-124).

The most significant impact of my SoTL, as described below, is the diversity of stakeholders who benefit from the efforts. Stakeholders are not only academic professionals who receive published research but also practitioners of agricultural education in formal and nonformal spaces, industry, and community who have engaged in curriculum creation and training programs, but students who have been the ultimate stakeholders and recipients of the work. If we engage in better teaching and allocate resources around effective teaching (facilities, equipment, curriculum), the benefit is student success. Three contextual areas of emphasis in my SoTL portfolio include: 1) agricultural education and its accessibility 2) agricultural literacy and 3) effective agriculture teaching in K-12 aged students and beyond, both of which I discuss below.

Teacher development and accessible agricultural education are the first area of focus for my scholarly efforts in my current position. Initially, this included recruiting, training and providing in-service professional development to agriculture educators in formalized agricultural education programs. This has led to the funding of the CoBank Center for Agricultural Education (\$3.3 million) and additional funding (i.e., Ardent Mills \$200,000, CHS and Zoma Laboratory funding) for curriculum development and resources to improve the quality of the agricultural education initiatives. Access to quality educational programs, deep-critical thinking curriculum, relevant content in agriculture, and professional development in pedagogy increase the accessibility of agricultural education. The desire to recruit and provide career information has led to many professional presentations, workshops and programs around agriculture teacher recruitment and retention and new program development and training. Second, my SoTL has centered around agricultural literacy. Initially developed as a set of activities to engage young learners in agriculture content, the focus of agricultural literacy has expanded to provide contextual understanding of the complexities of agricultural literacy (values, behaviors, affinity, not just knowledge acquisition). The efforts of this work have resulted in participation in three multi-state research groups (W2006, W3006 and W4006), writing of the national research agenda priority around agricultural literacy, development of significant programming around agricultural literacy (CAM’s Agriculture Academy) and the funding of agricultural literacy programming through an urban learning laboratory (\$1.2 million from Morgridge Family Foundation) and currently over \$600,000 internal funding to launch impacts around agricultural literacy and the creation of over 9 different state-wide (and beyond) curriculum initiatives. Effective teaching is the overarching activity across all my SoTL efforts. I have researched provided significant professional development programming invited lectures and across ages (youth, adult) and contexts (school-based agricultural education, extension, and nonformal programming, specialized camp/workshop experiences, college-classroom teaching).

EVIDENCE OF INCORPORATING DIVERSITY, EQUITY, INCLUSION, AND/OR SOCIAL JUSTICE (DEISJ) IN SCHOLARSHIP, RESEARCH, AND CREATIVE ARTISTRY

DEISJ has been a significant focus of my scholarly efforts. I have studied critical issues surrounding agricultural education, including gender in the teaching force, how to provide educational access to students in remote, rural areas of Colorado, providing critical resources for diverse audiences through Synch Up and Zoma grant funding, and seeking to provide agricultural education access for neurodiverse audiences (Ram Scholars) and urban audiences (CAM’s Agriculture Academy at Morgridge Learning Laboratory) who lack access to agricultural education. W3006 and W4006 Multistate Research agendas in Agricultural Literacy (of which I have been a member) have written and researched objectives regarding what programs are effective at reaching diverse populations (age, gender, demographic, background). I have also

worked on graduate student projects and on curriculum projects where the target audience was increasing the competencies around DEISJ to Colorado Agricultural Education teachers and stakeholders.

PUBLISHED WORKS

Refereed Journal Articles:

1. Vautier, A., Enns, K., & Cadaret, C. (2023). Impacts of the COVID-19 Pandemic on Student Performance and Perceptions of Learning. *NACTA Journal*, 67(1). <https://doi.org/10.56103/nactaj.v67i1.94>*
2. Martin, M., Enns, K., Hartmann, K., (2022). *Agrarianism in Agricultural Education: A Narrative Study*. *Journal of Agricultural Education*, 63(3)
3. Martin, M., & Enns, K., (May, 2021). *Teaching evaluation in agricultural literacy and informal education*. NACTA Teaching Tips.
4. Countryman, A., Martin, M. J., & Enns, K. (2019, March) *Gains from trade: Student perceptions of an international agricultural trade course*. *NACTA Journal*. 63(1)
5. Martin, M. J., & Enns, K. J. (2017). The conflicts of agriculture: Exploring the agriculture values of university agricultural education students. *Journal of Agricultural Education*, 58(1), 210-255. doi: 10.5032/jae.2017.01210
6. Enns, K., Martin, M., & Spielmaker, D. (2016). Research Priority 1: Public and policy maker understanding of agriculture and natural resources. In T. G. Roberts, A. Harder, & M. T. Brashears (Eds.), *American Association for Agricultural Education national research agenda: 2016-2020*
7. Semler, M., Woerner, D., Belk, K., Enns, K., & Tatum, J., (2016). Effects of USDA carcass maturity on sensory attributes of steaks produced by cattle representing two dental age classes. *Journal of Animal Science*, 94. doi: 10.2527/jas.2016-0382*
8. McKim, B., Lawver, R., Smith, A., Aschenbrenner, M. & Enns, K., (2016). Developing Metrics for Effective Teaching in Agricultural Education. *Career and Technical Education Research*. 41(2).
9. Enns, K.J., & Martin, M.J. (2015). Gendering Agricultural Education: A Study of Historical Pictures of Women in the Agricultural Education Magazine. *Journal of Agricultural Education*, 56(3), 69-89. doi: 10.5032/jae.2015.03069
10. Clark, N.D., Enns, K. J., & Johnson, J.J. (2013). Skill-based Student Assessment: as easy as 1.2.3....4. *The Agricultural Education Magazine*. Sept/Oct Edition.*
11. Enns, K., & Testerman, S., (2013). Training the agriscience dragon. *The Agricultural Education Magazine*. Sept/Oct Edition*
12. Lawver, R., McKim, B., Enns, K., Smith, A., & Aschenbrenner, M. (2013). Toward a Framework for Effective Teaching in Extension Education: A Multi-State Factor-Analytic and Psychometric Analysis of Effective Teaching. *Journal of Agricultural Education* 54(2), 143-158.

Refereed Proceedings/Transactions:

1. Bennett, J., Baxter, A, Clark, N., Enns, K., (2023). Examining a Perception-based Pedagogical Content Knowledge Survey for Agricultural Educators in Colorado. In poster proceedings for the American Association for Agricultural Education, Western Region conference, Logan, UT

2. Bennett, J., Clark, N., Enns, K., (2023) Using Agricultural Literacy to Develop a Community of Practice for SBAE Students. In poster proceedings for the American Association for Agricultural Education, Raleigh, NC.
3. Appel, S., Enns, K., Bennett, J., (2022), Emotions in Literacy: Exploring the role of affinity in agricultural literacy. Proceedings of the Western Region Research Meeting of the American Association of Agricultural Education Research Conference, Las Cruces, NM*
4. Appel, S., Enns, K., Bennett, J., (2022), The impact of a longitudinal agricultural curriculum on youth's agricultural literacy. Proceedings of the Western Region Research Meeting of the American Association of Agricultural Education Research Conference, Las Cruces, NM*
5. Appel, S., Enns, K., (2021), Laughter in Literacy: Influencing Youth Agricultural Literacy through Summer Day Camp. Proceedings of the Western Region Research Meeting of the American Association of Agricultural Education Research Conference, Billings, MT*
6. Bennett, J., Appel, S., Enns, K., (2021), Creating Agvocates through Innovative Ag Literacy Programming Badging, Poster Proceedings of American Association of Agricultural Education Research conference, Online.*
7. Vautier, A., Enns, K., Caderet, K., (2021). *Preliminary evaluation of the impact of the COVID-19 pandemic on student performance and perceptions of learning in two undergraduate animal science courses*. Proceedings of the Western Section of the American Society of Animal Science, Fort Collins, CO*
8. Bennett, J., Enns, K., Clark, N., & Martin, M., (2020). Utilizing High Impact Practices to Improve First-Year College Experiences. Poster Proceedings of the Western Region Research Meeting of the American Association of Agricultural Education Research Conference, Online.
9. Clark, N., Enns, K., & Martin, M. (2019). Create it Away! Construction of a Crate in Skill Development Course. Proceedings of the Western Region Research Meeting of the American Association of Agricultural Education Research Conference, Anchorage, AK.
10. Parra, I., Martin, M., & Enns, K., (2019). Evaluation Schematic for Agricultural Literacy Programming. Proceedings of the Western Region Research Meeting of the American Association of Agricultural Education Research Conference, Anchorage, AK.*
11. Enns, K., Bennett, J., Clark, N., Stahley, J., Thorn, D., (2019). Building all three legs to the teacher retention stool. Poster Proceedings of the Western Region Research Meeting of the American Association of Agricultural Education Research Conference, Anchorage, AK.
12. Whaley, J., Enns, K., & Martin, M. (2018). Collaboration in Remote Rural America: Success in Improving the Agriculture Workforce. Poster Proceedings for American Association for Agricultural Education Research Meeting, Charleston, SC.*
13. Keeton, E., Hock, G., Enns, K., Martin., M, Spielmaker, D., Stewardson, D., (2016). Simplifying the process: Agricultural literacy publication search framework. Poster Proceedings of the Western Region Research Meeting of the American Association of Agricultural Education Research Conference, Tuscon, AZ.
14. Stewart, K., Martin, M.J., & Enns, K. (2015). Measuring and Comparing Student's Knowledge on Genetically Modified Organisms. In poster proceedings for the Western Region American Association for Agricultural Education Research Conference, Corvallis, OR*
15. Clark, N., Enns, K. J. Martin, M. (2014). Agricultural Mechanic Psychomotor Skill Development for Pre-Service Teachers: An Action Research Approach. Proceedings of the Western Region of American

Association for Agricultural Education research conference, Kona, HI*

16. Martin, M., Enns, K. J. (2014). Clashing of Views: Agricultural Education Students' Conceptualization of Agricultural Values. In the proceedings of the American Association for Agricultural Education Research Conference, Snowbird, UT
17. Lewis, R. M., Spangler, M. L., Lockee, B. B., Enns, R. M., Enns, K. J., Dekkers, J. C., C. M., Cassady, J. P., MacNeil, M., Gould, C. A., Boggs, D. L., Misztal, I., Pollak, E. J. (2014). Filling the Knowledge Gap: Integrating Quantitative Genetics and Genomics in Graduate Education and Outreach. In proceedings of the World Congress of Genetics Applied to Livestock Production. Vancouver, Canada.
18. Clark, N., Enns, K. J., Martin, M. (2014). Agricultural Mechanic Psychomotor Skill Development for Pre-Service Teachers: An Action Research Approach. In poster proceedings of the of American Association for Agricultural Education research conference, Snowbird, UT*
19. Enns, K. J., Clark, N., Martin, M. (2014). Becoming Professionals: Utilizing Ideas Unlimited and Professional Development Seminars to Foster Success in Future Teachers. In poster proceedings for American Association for Agricultural Education Research Conference, Snowbird, UT*
20. Clark, N.D., & Enns, K.J. (2013). Agricultural Mechanics Round Robin Training Seminar. Poster Proceedings for American Association for Agricultural Education Research Conference, Columbus, OH. (pp. 11-14).*
21. Lawver, R., McKim, B.R., Smith, A.R., Aschenbrenner, M.S. & Enns, K. (2012). Toward a Framework for Effective Teaching in Agricultural Education: A Multi-State Factor-Analytic and Psychometric Analysis of Effective Teaching. Proceedings of the American Association for Agricultural Education Research Conference. Asheville, NC
22. Lawver, R., McKim, B.R., Smith, A.R., Aschenbrenner, M.S. & Enns, K. (2012). Toward a Framework for Effective Teaching in Agricultural Education: A Multi-State Factor-Analytic and Psychometric Analysis of Effective Teaching. (2012). Proceedings of the Western Region American Association for Agricultural Education Research Conference. Bellingham, WA
23. McKim, B., Lawver, R., Enns, K., Smith, A., & Aschenbrenner, M. (2012). Toward a Framework for Effective Teaching in Extension Education: A Multi-State Factor-Analytic and Psychometric Analysis of Effective Teaching. (2012). Proceedings of the American Association for Agricultural Education Research Conference. Asheville, NC.
*Selected as a distinguished manuscript
24. Enns, K. J. (2010). Important and Implemented Quality Indicators of Supervised Agricultural Experience Programs: Perceptions of Stakeholders (pp. 39-42). In poster proceedings for the Western Region American Association for Agricultural Education research conference, Great Falls, MT

Non-Refereed Journal Articles/Chapters/Proceedings/Transactions:

1. Enns, K., (2023). Innovation in Agricultural Literacy. Theme Editor for the Agricultural Education Magazine 95(4), January/February Issue* Note: several articles in this theme were done by students at CSU
2. Martin, M., & Enns, K., (2017). Tradition and Innovation leads to a catalyst for education. In CALF NEWS. 56 (5).

3. Bond, J.K., Enns, K., and B. Brockhouse. (2011) Mission Driven Marketing: Two Cooperatives Expand Opportunities for Sustainability-Minded Producers in Colorado and Provide Insight into Market Growth, *Rural Cooperatives Magazine*.
4. Bond, J.K., Enns, K., Espinosa, T., and Brockhouse, B. (August 2011). Potential Role of Cooperative in Marketing Small and Medium-Size Farmers' Fresh and Specialty Produce: Evidence from the Rocky Mountain Region." *USDA-Rural Development Research Report 10-03*.
5. Bond, J.K., Enns, K., and B. Brockhouse. (2011) "Marketing Fresh and Specialty Produce Through Cooperative and Collectives in Colorado with Implications for Cooperative Education Programming." AMR 11-05.
6. Enns, K., (2011) Agricultural Education Program Review. Document prepared for the review of the Department of Agricultural and Resource Economics.

Other (e.g., lab texts, book reviews, technical reports, in-house reports):

Industry Partnered Peer Reviewed Curriculums:

CAM's PBL Curriculums (developed in partnership/collaboration with students, content/research specialists, in-service teachers, CSU instructors and Extension Personnel):

1. Food Access - https://www.CAM'sagacademy.org/problem-based-learning/food-access*
2. Plant Genomics - https://www.CAM'sagacademy.org/problem-based-learning/plant-genomics*
3. Applied Agri-Technology - https://www.CAM'sagacademy.org/problem-based-learning/applied-agri-technology*
4. Enns, K.J., Chelsey, A., Swafford, T., MacPherson, M., Appel, S., (2022). *DIGS – Developing Individuals, Growing Stewards, An Agriculture Literacy Curriculum*. Developed with and for Colorado Extension Americorp*
5. Enns, K. J., Gaines, K., & Martin, M. (2015). In Kellie Enns (Ed.), *A Call to Action: A curriculum to ignite agricultural issues and agriculture values*. Developed for the Colorado Young Farmer Educational Association. www.cyfea.com
6. Enns, K. J., Clark, N., Vetter, S., Hart, L., & Tucker, K. (2014). Western Dairy Association Dairy Value Chain Curriculum. Lakewood, CO: Western Dairy Association.*
7. Testerman, S., & Enns, K., (2013). Agriscience Project Curriculum. Denver, CO: Colorado Community College System.*
8. Enns, K., (ed.) Career and Technical Education Laboratory Management Manual (2010). Denver, CO: Colorado Community College System.
9. Colorado Agricultural Education Agriculture Food and Natural Resource Pathway Content Standards. Denver, CO: Colorado Community College System (project facilitator, editor and co-writer)

CONTRACTS & GRANTS

Externally-Funded Projects as PI

(2022-2025) Ardent Mills Proposal (foundation). In support of agricultural literacy, regenerative agriculture, and problem-based learning pathways to education. **\$200,000.**

(2011-2014) The CoBank Center for Agricultural Education Capital Campaign. The Center for Agricultural Education Campaign – a combined campaign of Colorado State University and the Colorado FFA Foundation for the specific purpose of instructional improvement in agricultural education teacher development and the expansion of agricultural literacy efforts through the agricultural education program at Colorado State University, **\$2,699,000** (external), **\$650,000** (internal).

Externally-Funded Projects as CoPI

(2022-2025) CAM's Agricultural Academy Learning Laboratory. Enns, K., Venzor, K., McQuade, A., Morgridge Family Foundation. Develop program to support educational initiatives and pathway development for secondary students to explore and prepare for agriculture careers, \$3,000,000 total, **\$1,200,000** to support Agricultural Education.

(January 2021 – December 2022) Yampa Valley (Hayden) Rise Grant, Colorado Governor's Office, Enns, K., Martin J., Ag Literacy Coordination, \$1,050,500 total, **\$90,000** subcontract.

(January 2022 - December 2022) Student Driven Precision Ag Tools for Sustaining Crop Water Resources and Soil Health. CHS Foundation - Colorado State University Andales, A., Enns, K., Ham, J., Namuth-Covert, D., Zarestky, J., Pilot Testing, Teacher Fellowship Coordination, Internship Coordination, Professional Development, **\$256,723**.

(January, 2022 – December, 2023) Linked Education: Providing a Continuum of Experiences in Agricultural Industries and the Food System. SyncUp Colorado, Zoma Lab, K. Enns, J. Martin, D. Namuth-Covert, J. Zarestky), Teacher Fellowship Coordination, Internship Coordination, Professional Development, **\$349,990**.

(2011-2015) Enns, R. M. (Primary PI), Enns, K. (Co-Principal), Speidel, S. E. (Investigator/Collab.), Grant, "Engaging the New Biology: Integrating Quantitative Genetics and Genomics in Animal Breeding Graduate Learning", Virginia Polytechnic Institute, **\$89,466.00**.

Externally Funded Pending Projects as Investigator or role other than PI or CO-PI

(1/1/2025 – 12/31/2027) cATALyst Program: Activating Teachers and Leaders. USDA – SPECA Grant, Enns, K., Eshelman, K., McFarland, A., Project Director, USDA NIFA, **\$147,356.08**

(1/1/2025-12/31/2025) How do Beef Producers Benefit from Methane Reduction Markets? Ritten, J., Stakehouse-Lawson, K., Bruegger, M., Beiermann, J., Carvalho, P., DeLay, N., Enns, K., Place, S., Thoma, G., Overlin, A., Martinez, J., Childers, L., Raynor, E., Education Facilitator, USDA NIFA SAS, **\$9,687,482.68**

Internally Funded Awards

(2025) CAM's Agriculture Academy Program, CSU System Funding. **\$320,345**.

(2024) Extension Internship, Engage and Connect in Agricultural Literacy, Collaborative Project of Agricultural Education and Larimer County Extension. Enns, K., Bennett, J., Wildman, R., Supervisor, Office of Engagement and Extension, **\$5750**.

(2025) CAM's Agriculture Academy Program, CSU System Funding. **\$305,860.22**.

Un-Funded Projects as PI or CoPI

(2023) Agricultural Workforce Opportunity & Readiness Connections: High-Impact Experiences for Next Generation Extension, Outreach and Nonformal Education Professionals (AgWORC), Submitted to USDA-NIFA Judd-Murray, R., Smith, K., Enns, K., Bennett, J., Sub-contract \$185,295.

(2023) Project VITAL: Vocation and Inclusion Through Agricultural Learning. Fidler, D., Riggs, N., Hepburn, S., Daunhauer, L., Graham, J., Enns, K., Clark, N., HHS – ACL Administration for Community Learning, \$594,977.79.

(2020) Enns, K. Badging, Bridging and Building Career Pathways in Colorado Agriculture, USDA, NIFA, SPECA Internal Submission. \$300,000.

(2020) Blunt, T., Enns, K., et al. (Co-Investigator), Grant, “Northeast Colorado Community Recovery to Resiliency in Rural Agriculture and Food Systems, RISE Grant, State of Colorado. \$1,176,727.01.

(2020) “Integrated Education: community Recovery to Resiliency in Rural Agriculture and Food Systems, RISE Grant, State of Colorado. Blunt, T., Enns, K., et al. (Co-Investigator), \$3,030,220.89.

(2017) Innovation and Incubation: Utilizing School Based Experiential Learning Models to Improve Teacher Effectiveness. USDA-NIFA. Enns, K., Martin, M., Clark, N., Principal Investigator, \$149,974.11

Externally-Funded Projects as Investigator or role other than PI or CoPI

(2018 - 2023) Blue Jacket Society, Instructional Support, Colorado FFA Foundation, **\$74,600**

(2018) Ag Ed Instructional Excellence Endowment, Gift Support, including Colorado FFA Foundation, **\$25,000**

(2012-2015) "McCall Teacher Fellowship Gift", Colorado FFA Foundation, Private, **\$90,000**, Funded.

(2014) Curriculum Improvement, Colorado FFA Foundation/Colorado Young Farmer Educational Association/American Ag Credit, **\$10,000**.

2011-2012 Enns, K. (Supervisor), Grant, "Agricultural Education Mentoring Program", Colorado Community College System, **\$10,000**,

(2013-2016) Building Farmers in the West: Strengthening Foundations and Fortifying the Community Supporting Specialty Producers. Thilmoney, D., Sullins, M., Card, A., Enns, K., Collaborator, **\$551,675**.

(2011) Building Farmers in the West: Creating New Capacity, Community and Opportunities for Specialty Producers.” Thilmoney, D., Sullins, M, Enns, K. USDA (Sub-contract on Washington State University Grant). Experiential Learning Evaluator.

PAPERS PRESENTED/ SYMPOSIA/ INVITED LECTURES/ PROFESSIONAL MEETINGS/ WORKSHOPS

Professional/Research Presentations:

Enns, K., & Enns, R.M. (May 2024). Using experiential learning to better prepare students for agricultural careers. Invited lecture to the Lincoln University Centers of Excellence for Transformative Agribusiness, Lincoln - Canterbury, New Zealand

Macpherson, M., Chesley, A., Enns, K., Appel., S., (June, 2021). *Everybody DIGS (Developing Individuals, Growing Stewards) Agriculture*. Workshop presented to National Agriculture in the Classroom Conference, Des Moines, IA.*

Enns, K., & Martin, M., (2018). Call to Action: Agriculture Values in Adult Education. Workshop presented at 2018 Colorado Farm Show. *

Enns, K., & Kokes, M. and Farnik, D (2017). "Teaching about Antibiotic Use in Livestock." Workshop presented at the 2017 Colorado Farm Show.

Enns, K., & Martin, M., (2015). "The Role of Agricultural Values and Student Lives: Unmasking Passions and Tensions." Presentation to Department of Agricultural and Resource Economics Faculty Seminar. *

Clark, N., Enns, K. J., & Martin, M. (2014). Agricultural Mechanic Psychomotor Skill Development for Pre-Service Teachers: An Action Research Approach. Western Region of American Association for Agricultural Education research conference, Kona, HI.

Martin, M., & Enns, K. J. (2014). Clashing of Views: Agricultural Education Students' Conceptualization of Agricultural Values. American Association for Agricultural Education Research Conference, Snowbird, UT.

Lewis, R. M., Spangler, M. L., Lockee, B. B., Enns, R. M., Enns, K. J., Dekkers, J. C., C. M., Cassady, J. P., MacNeil, M., Gould, C. A., Boggs, D. L., Misztal, I., & Pollak, E. J. (2014). Filling the Knowledge Gap: Integrating Quantitative Genetics and Genomics in Graduate Education and Outreach. World Congress of Genetics Applied to Livestock Production. Vancouver, Canada.

Lawver, R., McKim, B.R., Smith, A.R., Aschenbrenner, M.S. & Enns, K. (2012). Toward a Framework for Effective Teaching in Agricultural Education: A Multi-State Factor-Analytic and Psychometric Analysis of Effective Teaching. American Association for Agricultural Education Research Conference. Asheville, NC.

Lawver, R., McKim, B.R., Smith, A.R., Aschenbrenner, M.S. & Enns, K. (2012). Toward a Framework for Effective Teaching in Agricultural Education: A Multi-State Factor-Analytic and Psychometric Analysis of Effective Teaching. (2012). Western Region American Association for Agricultural Education Research Conference. Bellingham, WA.

McKim, B., Lawver, R., Enns, K., Smith, A., & Aschenbrenner, M., (2012). Toward a Framework for Effective Teaching in Extension Education: A Multi-State Factor-Analytic and Psychometric Analysis of Effective Teaching. (2012). American Association for Agricultural Education Research Conference. Asheville, NC.

COLLABORATIVE & INTEGRATIVE INTERDISCIPLINARY SCHOLARSHIP

Much of my scholarship has involved a collaborative team of researchers and scholars. Specifically, I have worked with individuals in agricultural education, agricultural and resource economics, animal sciences, and general education across Colorado State University and other institutions. I have also helped establish collaborative and interdisciplinary work, including interviews and focus groups, specialized curriculums with high school teachers, two-year post-secondary educators, and industry personnel. These efforts have strengthened the final product of the scholarship. For example, when I co-wrote the standards for Colorado agricultural education, we partnered with all these groups, and the outcome was scholarship, which is cited in every classroom across Colorado every academic day. The impacts of these scholarly efforts are significant. This has led to the funding and creation of a home for agricultural education at CSU, the CoBank Center for Agricultural Education, and program development around agricultural literacy, which has led to being included in several industry-specific proposals to incorporate best practices in teaching and learning across age groups and contexts, including funded proposals around soil health and precision water technology, and recently submitted proposal beef production methane reduction markets.

CV SECTION 3: EVIDENCE OF TEACHING AND ADVISING EFFECTIVENESS

EVIDENCE OF INCORPORATING DIVERSITY, EQUITY, INCLUSION, AND/OR SOCIAL JUSTICE (DEISJ) IN TEACHING AND ADVISING EFFECTIVENESS

Teaching is the ultimate privilege and the most fulfilling of endeavors. Teaching is not only a part of my appointment at CSU, but also fundamentally what I do and how I think as a person. Every opportunity is an opportunity to learn and impact the future. To provide teaching means to meet students where they are, provide opportunities for them to take risks and challenge, provide significant mentorship so that they may see success, and then support their work beyond the classroom and into their profession. Successful teaching is student-centered, innovative, and challenges the status quo. Creative thinking, relationship seeking, and innovative program development are at the core of my teaching and advising effectiveness.

I serve as the program lead in agricultural education at Colorado State University. I manage all aspects of the courses, programs, and budget. My teaching portfolio's two broad focus areas are agriculture teacher development and agricultural literacy for CSU students and beyond. I will discuss the development, outcomes, progress/impacts, and future of each area.

1. Agriculture Teacher Development

As a newly minted assistant professor 15 years ago, I was the lone faculty in agricultural education, teaching three classes in school-based agricultural education. I facilitated a program move from the School of Education to the Department of Agricultural and Resource Economics. Currently, our Agricultural Education program includes me and six non-tenure track faculty (and currently searching a second tenure-track position). While the work of building programs and course offerings has been collaborative, I envisioned and led the expansion from a few classes to two undergraduate majors, a minor, a new graduate degree, and a graduate certificate. Specifically, the program now offers more than 36 courses in program areas, an undergraduate degree in school-based Teacher Development, an undergraduate degree in Agricultural Literacy, a minor in Agricultural Literacy, a Graduate Program in Teacher Development, a Graduate Program in Extension Education, and Teaching in Extension Graduate Certificate. We have focused our program development so that our students can meet the following program outcomes:

1. Competent knowledge of agricultural subject matter
2. Ability to create effective instructional opportunities that are adapted to diverse learners in agricultural education
3. Employment of innovative instructional methodologies and assessment techniques to promote learning in agriculture
4. Effective educational program management and program evaluation techniques

To provide cutting-edge agricultural education, it was clear our program needed specific facilities. Enlisting input from industry partners, I focused on building the CoBank Center for Agricultural Education to expand course offerings and improve student outcomes. The CoBank Center for Agricultural Education, on our Agricultural Experiment Station facility, ARDEC, was opened in 2016 to model better effective instruction, management, and experiential learning opportunities. This facility is also a hub for interaction between high school and college students, teachers, and business and industry professionals. It includes three classrooms, conference facilities, and an extensive agriculture mechanics laboratory for teacher training and professional development. It also serves as a home base for Colorado TEAM Ag Ed. The building of the CoBank Center for Agricultural Education has helped to create a program that is meaningful and relevant to the stakeholders who are often present in our building.

Recognizing the needs of a broader set of students in our region, I have pioneered two different programs to bring agricultural education opportunities to students more placed based in rural Colorado and to neurodiverse students. Due to challenges post-Covid and in response to rising costs in Ft. Collins, we are innovating in our Teacher Development program by offering an accessible option for students in our rural, northeast corner of the state to be initiated in the fall of 2024. We offer a program called NE3, the third year (first year after obtaining an A.A. Degree) of our teacher development program in experiential form, in collaboration with Northeastern Junior College, a small, rural, affordable school in the Northeast corner of Colorado. This program was initiated from stakeholder requests and in response to a research discovery in 2023 that teachers in Colorado learn their pedagogical content knowledge through experiences. Therefore, these students will spend year three in an experiential, innovative approach, placing two days a week in the agricultural industry, two days a week in a secondary agricultural education classroom teaching in the same industry pathway, and one day a week in a classroom understanding the theoretical underpinnings of agricultural education and educational concepts. We hope that we will attract students from rural areas to learn, and then teach and revitalize our rural communities.

Second, a unique collaboration has been developed with partners in the College of Health and Human Sciences. We have initiated and partnered to deliver a program called Ram Scholars, designed to create accessible career pathways in higher education and beyond for neurodiverse peers. Ram Scholars are individuals with varied, often significant, educational challenges. This initiative was championed to 1) impact an underemployed and underserved population and 2) to better prepare our future educators across all our programs to teach exceptional students with diverse educational needs. This innovative two-year program partners students (often our agricultural undergraduate students) with neurodiverse peers, providing tutoring, curriculum adaptations, and modifications in CSU College of Ag Courses. Agricultural education also offers courses for our Ram Scholars students specifically. Finally, in summer, we work extensively with our Experiment Station personnel (where our CoBank Teaching Facility is located) to intern Ram Scholars with agricultural education and human development peers and provide agriculture work experience across plant and animal systems pathways. Skills in agriculture are exclusively designed, trained, and supported by agricultural education students and faculty. We placed 6 Ram Scholar peers in 2023, and 7 in 2024. This has impacted our scholars and provided experiential learning for our future teachers in real settings. This impact has also led to our in-service agriculture teachers requesting this professional development at our 2024 Mid-Winter Conference.

After revitalizing the Master of Extension program and putting significant effort into staffing, mentoring and curriculum changes (five new courses) there have been robust accomplishments. Since 2017, 49 students have graduated with a Master of Extension, and 6 with the Teaching in Extension Certificate. Currently we are advising 27 students in this program and 6 in the Teaching in Extension Certificate. This program has had tremendous impacts in preparing extension professionals for Colorado positions and across the country.

Agricultural education continues to offer the Teacher Development Master of Agriculture Program and the Master of Extension Program. Since my hiring, I have mentored 32 students as a primary advisor and guided them towards completion of either a scholarly project or a research thesis. This requires significant investment in project coordination, proposal development, writing, and dissemination of results.

A valued component of my portfolio is my mentoring and support of students. The most rewarding part of my job is seeing student success. In my tenure, I have supervised and supported over 100 student teachers, graduated over 81 graduate students across all graduate programs in agricultural education, and supported numerous outside-of-the-classroom activities (study abroad, clubs, and organizations) where students discover their assets and are supported to reach their educational goals.

TEACHING:

Year	Semester	Course No./Title	Cr. Hrs.	Enrollment	SCH
2024	Fall	EDCT 425 – Methods/Materials in Agri Ed.	4	4	16*
2024	Fall	AGED 487 – Internship	2	1	2
2024	Fall	AGED 495 – Group Study	6	2	12*
2023	Fall	AGED 525 – Ag and Extension Teaching (online)	8	3	24*
2024	Spring	AGED 698- Agricultural Education Research	3	2	6*
2023	Fall	EDCT 425 – Methods/Materials in Agri Ed.	4	4	16*
2023	Fall	AGED 487 – Internship	2	1	2
2023	Fall	AGED 495 – Group Study	2	1	2
2023	Fall	AGED 525 – Ag and Extension Teaching (on campus)	3	4	12*
2023	Fall	AGED 525 – Ag and Extension Teaching (online)	3	18	54*
2023	Fall	AGED 698- Agricultural Education Research	var.	3	4
2023	Summer	EDCT 590 –Teaching and Leadership/AGED	var.	17	52*
2023	Summer	EDCT 590 –CASE Curriculum Professional Dev	3	9	27
2023	Summer	AGED 496 – Group Study (RAM Scholars)	1	6	6*
2023	Spring	AGED 420 – Developing School-Based Ag Ed Pgm	3	4	12*
2022	Fall	EDCT 425 – Methods/Materials in Agri Ed.	4	4	16*
2022	Fall	AGED 495 – Independent Study	3	1	3
2022	Fall	AGED 525 – Ag and Extension Teaching (on campus)	3	5	15*
2022	Fall	AGED 525 – Ag and Extension Teaching (online)	3	12	36*
2022	Fall	AGED 698- Agricultural Education Research	1	1	1
2022	Fall	AGED 487- Internship	1	1	1
2022	Summer	EDCT 590 – Teaching Animal Science	3	15	45
2022	Spring	AGED 495 – Independent Study	2	1	2
2022	Spring	AGED 420 – Developing School-Based Ag Ed Pgm	3	6	12*
2022	Spring	AGED 486C- Practicum: FFA	1	2	2
2022	Spring	AGED 698- Agricultural Education Research	var.	2	7
2021	Fall	AGED 684 – Supervised College Teaching	1	1	1
2021	Fall	EDCT 425 – Methods/Materials in Agri Ed.	4	2	8
2021	Fall	EDCT 520 – Teaching Agricultural Education	var.	4	14
2021	Fall	AGED 525 – Ag and Extension Teaching (on campus)	3	4	12*
2021	Fall	AGED 525 – Ag and Extension Teaching (online)	3	9	27*
2021	Fall	AGED 430 – Methods of Ag Literacy	3	4	12*
2021	Summer	AGED 486C – Practicum: Ag Literacy	1	1	1
2021	Summer	AGED 698- Agricultural Education Research	var.	2	3
2021	Summer	EDCT 590 –Teaching and Leadership/AGED	var.	21	62*
2021	Spring	AGED 420 – Developing School-Based Ag Ed Pgm	3	6	18*
2021	Spring	AGED 486C- Practicum: FFA	2	2	4
2021	Spring	AGED 698- Agricultural Education Research	var.	2	7
2020	Fall	AGED 684 – Supervised College Teaching	var.	2	3
2020	Fall	EDCT 425 – Methods/Materials in Agri Ed.	4	2	8
2020	Fall	AGED 495 – Independent Study	1	1	2
2020	Fall	AGED 495 – Group Study	1	1	1
2020	Fall	AGED 698 – Agricultural Education Research	var.	1	1
2020	Fall	AGED 525 – Ag and Extension Teaching (on campus)	3	4	12*
2020	Fall	AGED 525 – Ag and Extension Teaching (online)	3	15	45*
2020	Fall	AGED 540 – Ag Ed Laboratory Management and Sfty	2	1	2
2020	Summer	EDCT 590 –Teaching and Leadership/AGED	var.	17	51*
2020	Spring	AREC 484 – Supervised College Teaching	3	2	6
2020	Spring	EDCT 492 – Seminar Professional Relations	1	5	5
2020	Spring	AGED 420 – Developing School-Based Ag Ed Pgm	3	4	12*
2020	Spring	AGED 486C- Practicum: FFA	var.	2	3

2020	Spring	AGED 698- Agricultural Education Research	var.	2	4
2019	Fall	EDCT 425 – Methods/Materials in Agri Ed.	4	7	28*
2019	Fall	EDCT 492 – Seminar Professional Relations	1	2	2
2019	Fall	AGED 220 – Understanding Agricultural Education	1	20	20
2019	Fall	EDCT 520 – Teaching Agricultural Education	var.	3	10
2019	Fall	AGED 525 – Ag and Extension Teaching (on campus)	3	6	18*
2019	Fall	AGED 525 – Ag and Extension Teaching (online)	3	8	24*
2019	Fall	EDCT 425 – Methods/Materials in Agri Ed.	4	7	28*
2019	Fall	AGED 698 – Agricultural Education Research	var.	1	1
2019	Fall	AGED 540 – Ag Ed Laboratory Management and Sfty	2	1	2
2019	Summer	EDCT 590 –Teaching and Leadership/AGED	var.	30	114
2019	Summer	AGED 698 – Agricultural Education Research	4	1	4
2019	Spring	AGED 420 – Developing School-Based Ag Ed Pgm	3	9	27*
2019	Spring	AGED 486C- Practicum: FFA	var.	2	3
2019	Spring	AGED 587 – Internship in Extension	2	4	8*

* Denotes courses with DEISJ Aspects within Course

DEISJ principles are incorporated into all my teaching methods courses. Topics include working with and recruiting diverse learners, working with neurodiverse students, incorporating diverse materials into the curriculum, grading for equity, challenging bias in teaching, developing materials, making materials accessible, understanding privilege, and educating for equity.

ADVISING:

STUDENT ADVISING/GRADUATE SUPERVISION

UNDERGRADUATE STUDENTS:

34 Undergraduate Mentees - 2018
 42 Undergraduate Mentees - 2017
 49 Undergraduate Mentees - 2016
 42 Undergraduate Mentees - 2015
 38 Undergraduate Mentees - 2014
 43 Undergraduate Mentees - 2013
 39 Undergraduate Advisees - 2012
 34 Undergraduate Advisees - 2011
 33 Undergraduate Advisees - 2010
 33 Undergraduate Advisees - 2009
 31 Undergraduate Advisees - 2008

While we have moved away from required faculty advising and mentoring in the Department of Agricultural and Resource Economics (my home department), I still provide mentoring to all students in the teacher licensure program in selecting and placing students in their practicum program and in their student teaching sites. This allows multiple opportunities to understand student assets and define successful mentors in the field. Additionally, I meet with several assigned students (in and outside of agricultural education) to help them acclimate to CSU and our department and provide opportunities and engagement.

GRADUATE STUDENTS:

Current Graduate Advisees:

Saralynn Vetter	MAGR, Teacher Development
Johnathan Cable	MAGR, Teacher Development
Katharine Eshelman	MAGR, Teacher Development
Jay Whaley	MAGR, Teacher Development

Jane Toni Gross	MAGR, Teacher Development
Brooke Carlson	MAGR, Teacher Development with Educator Licensure
Jordyn Chance	MAGR, Teacher Development with Educator Licensure (F 24)

Current Graduate Committee Memberships (excluding those chaired):

<u>27</u>	Plan C (Master of Extension Education)
<u>2</u>	MS/MA
<u>2</u>	PhD

Graduate Committee Memberships (for past 5 years, not including those above)

<u>15</u>	Plan C
<u>11</u>	Plan B
<u>2</u>	MS/MA
<u>2</u>	PhD

Graduate Degrees Completed Under Your Supervision (past 5 years):

Name, Year, (MS, MA, PhD)		
<u>Year</u>	<u>Student</u>	<u>Degree</u>
2024	Megan Crowley	Master of Agriculture, Teacher Development
2022	Sam Brewington	Master of Agriculture, Teacher Development
2022	Sarah Appel	Master of Agriculture, Teacher Development and Extension Teaching Certificate
2022	Heather Crabtree	Master of Agriculture, Teacher Development
2022	Ruth Shepardson	Master of Agriculture, Teacher Development
2022	Erica Franson	Master of Agriculture, Teacher Development
2022	Wellman, Eric	Master of Agriculture, Teacher Development
2020	Erin Goodell	Master of Agriculture, Teacher Development with Educator Licensure
2020	Steven Schank	Master of Agriculture, Teacher Development
2020	Jenny Bennett	Master of Agriculture, Teacher Development
2019	Amy McFarland	Master of Agriculture, Teacher Development

Descriptions of Mentoring Activities

I have supported and mentored students through graduate project completion, including significant scholarly projects that have been created. I have mentored these students through project ideation, development, creation, evaluation, and reporting, including writing a professional, scholarly purpose statement to support the project's work. During final semesters, this includes weekly meetings, seeking additional resources and guidance, and providing feedback.

2. Teaching Agricultural Literacy

I don't always teach formal course offerings in agricultural literacy, though I have worked to establish similar

teaching opportunities for our undergraduate students in this program and mentored students through project development. We have developed both formal (CAM’s Ag Academy Problem Based Learning Curriculum) and nonformal (CAM’s Ag Academy - On the Road Experiences). The development of laboratory spaces for agricultural literacy is critical to the success of these undergraduates and mimics the program alignment in teacher development undergraduates. The work of our students in classes has been so significant, that we have built these out as part of our formal outreach offerings for CAM’s Agriculture Academy. Colorado State University offers both an undergraduate degree and minor in Agricultural Literacy.

Engagement in multi-state research groups around agricultural literacy, and a need to better connect Colorado public to their agricultural heritage resulted in the creation of CAM’s Agricultural Academy. CAM’s Agricultural Academy is an agricultural literacy program designed to take agriculture content in fun and engaging ways across Colorado and place-based at CSU Spur Campus on the northside of Denver, Colorado. CAM’s Agricultural Academy was developed in order that every youth in Colorado could have a significant agriculture experience, believing that a connection point could help students envision future curricular opportunities and careers in agriculture. To accomplish this, I envisioned a scaffolded menu of experiences for CAM’s. First designed were on-the-road experiences where we would increase agriculture activities and experiences at fairs, festivals, and community events across Colorado. The primary target for this audience is aged K-6th grade. Then, to accomplish the need to connect middle and high school students we have developed CAM’s Problem Based Learning (PBL) curriculum. Designed to engage students in critical thinking while learning agriculture contextually, CAM’s PBL is a semester long problem-solving curriculum, co-created with researchers at Colorado State, and facilitated by local teachers with support from CAM’s instructors (expanded to 2 full time in 2023). CAM’s On the Road (OTR) experiences result in becoming ‘junior’ agricultural ambassadors (known as the “**Badging** experiences”) provide deep-critical thinking content based on research conducted at CSU and in Colorado through CAM’s PBL (**Building** knowledge and problem-solving skills), and providing train-the-teacher programs to activate teachers state-wide, including Come-to-the-Table Leadership program (**Bridging** students in ag career competencies). The badging, building, bridging framework is fundamental to our organization around CAM’s and is the foundation to build our logic model for our programming.

The envisioned program received significant external support, and we were able to build a learning laboratory at CSU Spur, an urban Denver hub for agriculture, food, and water exploration. The Morgridge Learning Laboratory was born! With naming and significant financial support (\$1.2 million external and over \$600,000 internal funding), the Morgridge Learning Laboratory was designed and opened in summer of 2022, as an intentional outreach and accessibility hub for diverse learners in agriculture. The Morgridge Learning laboratory is the home to CAM’s Agricultural Academy and provides critical access for our students (future educators) to learn to teach and interact with diverse audiences in both classroom and nonformal environments. I have provided the vision, strategic planning, program implementation, and fundraising support and supported all curriculum development efforts for this program expansion initiative.

Our impacts have been significant since our inception of CAM’s Ag Academy in 2020: regarding OTR programming we have had over **121,000** documented engagements with public, worked with over **183** partners outside of CSU to deliver programming, trained **341** youth to deliver agriculture programs in local communities, worked with **39** unique groups within CSU to develop collaborative engagements, and recruited **280** CSU (180 were agricultural education) students to assist in program delivery, and had **14,599** youth receive their Junior Agriculture Ambassador badges! We launched our PBL programming in 2023 after the opening of our Morgridge Learning Laboratory and in our first year we have had over **54** schools, and **1920** students participate in PBL related to Food Access, Plant Genomics, and Agri-Technology.

CV SECTION 4: Evidence of Outreach/Service

Partnerships have driven the work I provide in my outreach and service portfolio. Critical partnerships with Colorado TEAM Agricultural Education, Colorado Vocational Agriculture Teachers Association (CVATA),

Colorado FFA Association, Colorado FFA Foundation, CSU Spur Education, Colorado Extension, and business and industry surrounding Colorado agriculture drive my passion to educate and impact.

Agricultural education has been successful through evidence-based programming, improving our service and engagement activities. This effort has been focused across many areas, but two notable areas are service to Colorado Ag Ed/FFA and service in Agricultural Literacy.

Colorado TEAM Ag Ed (TEAM) has always been focused partner for me. I have worked closely with the program director for agricultural education, CVATA, Colorado FFA Foundation and Association to deliver programs that will impact the larger agricultural education community. We partner with the TEAM to deliver professional development conferences (twice each year) and provide credits for recertification (EDCT 590) and locations for significant events including State FFA Officer training, TEAM meetings and strategic planning, and hosting Mid-Winter CVATA Conference. Two years ago, when CSU Spur (Urban Education Facility around Food, Water, and Agriculture) opened, we saw the opportunity to have our State FFA Officer live on site, and work at CSU Spur to interact with the public and educate others about agriculture. But to support this effort, we realized that our State FFA Officers required additional training and professional development in teaching and advocating for agriculture – here is where Come to the Table Leadership Development program was developed, funded and implemented. The State FFA Officers, working with the State FFA Advisor and myself, instituted leadership development program every Monday where we work with state officers on three specific activities: education in the jacket (serving FFA members state-wide), education beyond the jacket (service and working in education and advocacy at CSU Spur) and education after the jacket (networking, personal well-being, habits building, self-care, handling transitions). This has been a significant lift, but incredibly rewarding to see the rapid growth of the leadership team. Finally, the third area where I serve the TEAM most significantly is providing all the organization around the State FFA CDE Coordination. I spend significant amount of time organizing a team at CSU to deliver 13 competitive events that serve almost 1800 FFA members state-wide. In the 10 years I have provided this significant organization, the event participation has grown by over 50%. I view this as a critical connection point for CSU and future CSU students. The outreach and service can be found in the subsequent pages of professional development presentations and documented work on committees and service to the profession.

Presentations to Industry/Professional Organizations:

2023, Spur on Ag Literacy and Accessible Education – presentation to North American Agricultural Advisory Network, GFRAS (Global Forum for Rural Advisory Services) Conference, Denver, CO*

2023, Career Development Events – presentation to Colorado Vocational Agriculture Teacher’s Association Mid-Winter Conference, CoBank Center for Ag Ed, Ft. Collins, CO*

2022, January, “Everyone Digs Agriculture.” Enns, K., MacPherson, M., Swafford, T., Appel, S. Presented to industry professionals at Colorado Farm Show, Greeley, CO*

2022, January, “Badging, Bridging, Building Career Pathways in Agriculture.” Enns, K., Bennett, J., Presented to industry professionals at Colorado Farm Show, Greeley, CO*

2022, January, “Agricultural Education of the Future” Enns, K., Clark., N., Colorado Vocational Agriculture Teachers Association Mid-Winter Conference, Ft. Collins, CO*

2022, January, “Upskilling Badges” Andales, A., Namuth-Covert, D., Enns, K., Colorado Vocational Agriculture Teachers Association Mid-Winter Conference, Ft. Collins, CO

2022, January, “Agricultural Education CDE” Enns, K., Colorado Vocational Agriculture Teachers Association Mid-Winter Conference, Ft. Collins, CO*

2018 “Teaching and Advocating for Agriculture.” Workshop for College of Agricultural Sciences Students, Fort

Collins, CO, *Organizer and Presenter**

2018 “Balancing Act” Time Management for Young People, Presented to Aspire to Grow Leadership Conference, Fort Collins, CO*

2017 “Building Up – Stories from Successful Women in Agriculture” Keynote presented to the Aspire to Grow Leadership Conference for Women, Fort Collins, CO*

2015 “A Call to Action” Curriculum Rollout Presentation. Presented to Colorado Vocational Agriculture Teachers Association Mid-Winter Conference, Enns, K., Martin, M. & Millar, C. Colorado Springs, CO.*

2015 “A Call to Action” Curriculum Rollout Presentation. Presented to Colorado Young Farmers Educational Association Institute, Enns, K., Martin, M. & Millar, C. Loveland, CO.*

2014 “Cultivating Greatness.” Aspire to Grow Women in Agriculture Leadership Conference: Coaches’ Corner, *Organizer and Facilitator*, Fort Collins, CO*

2013 Mentoring Young Women. Aspire to Grow Women in Agriculture Leadership Conference: Coaches’ Corner, *Organizer and Facilitator*, Fort Collins, CO*

Professional Development Presentations and Workshops Related to Teaching Effectiveness:

2021, Colorado Ag Education and CTE, presented to New Teacher Bootcamp, Nunn, CO*

2021, Curriculum Development and Scope and Sequence, presented to New Teacher Bootcamp, Nunn CO*

2020 Colorado Ag Education and CTE, presented to New Teacher Bootcamp, Presented Virtually*

2020 Curriculum Development and Scope and Sequence, presented to New Teacher Bootcamp, Presented Virtually*

2019 Colorado Ag Education and CTE, presented to New Teacher Bootcamp, Fort Collins, CO*

2019 Curriculum Development and Scope and Sequence, presented to New Teacher Bootcamp, Fort Collins, CO*

2018 “Focus on the Future, the Role of the Land Grant.” Focus Group of Joint Staff Advisory Committee, CVATA Mid-Winter Conference, Fort Collins, CO

2018 “Agricultural Education Bootcamp – Structure and Function of Ag Ed in Colorado” Workshop for new secondary agriculture teachers in Colorado, Fort Collins, CO*

2018 “Ideas Unlimited” for CVATA Mid-Winter Conference, Fort Collins, CO*

2017 “Effective Agricultural Education Teaching.” Presented to Colorado Vocational Agriculture Teachers Association Mid- Winter Conference, Fort Collins, CO (presented twice)*

2015 “Curriculum Development and Standards Alignment.” Presented to Colorado Vocational Agriculture Teachers Association Summer Conference, Lamar, CO (presented twice)*

2015 “Utilizing the Agricultural Mechanics Psychomotor Development Model – A Training.” Presented at the Colorado Vocational Agricultural Teachers Association Mid-Winter Conference. *Presented by* Schlabach, K., Enns, K., & Clark, N., Colorado Springs, CO*

2014 “Birthdays and Inquiry” Tri-State Inquiry Integration Conference for Agricultural Education, Granby, CO*

2013 - Workshop, WDA Dairy Curriculum. Colorado Vocational Agriculture Teachers Association Summer Conference, Clark, N., Ralston, M., & Enns, K., Fort Collins, CO*

2013 “Skills Cards for Agricultural Education Agricultural Mechanics Instruction.” Presented to Colorado Vocational Agricultural Teachers Association, Johnson, J., & Enns, K., Fort Collins, CO*

2012 - Workshop, Teaching the Agriscience Dragon. Curriculum Presentation to Colorado Vocational Agriculture Teachers Association Summer Conference, Testerman, S., & Enns, K., Fort Collins, CO*

2013 “Accepted and Validated Tool Lists in Colorado, Presented to Colorado Vocational Agricultural Teachers Association, Lacy, L., & Enns, K., Fort Collins, CO*

2012 “Effective Teaching and Senate Bill 191” Presentation to Colorado Agriculture Teachers Association Summer Institute, Cortez, CO*

2012, “Geocaching and Inquiry Learning - the Collaboration,” Presented at Inquiry Integration Institute for Agricultural Education Teachers, Granby, CO*

2012 “10 Tips for Effective Online Teaching.” DARE Online Teaching Seminar, Fort Collins, CO*

2011 “What is Inquiry, Within Inquiry?” presented at Inquiry Integration Institute, Colorado Community College System, Granby, CO*

2011 “Innovative Assessment of SAE Programs,” Mid-Winter Conference, Colorado Vocational Agriculture Teachers Association, *Presenter*, Colorado Springs, CO (presented twice)*

2011 “Engaging High School Students” Workshop presented to College of Agricultural Sciences Ambassador Officer Training, Fort Collins, CO*

2010 “Developing Standards in Animal Systems, Plant Systems, Agribusiness Systems, and Power Structure and Technical Systems in Colorado Agricultural Education”, Colorado Community College System, Denver*

2010 “Developing Standards for FFA and SAE for Colorado Agricultural Education”, Colorado Community College System, Denver, CO*

2010 “Developing Standards and Assessments in Natural Resources and Environmental Systems for Colorado Agricultural Education”, Colorado Community College System, Glenwood Springs, CO*

2010 “Developing Standards and Assessments in Food Products and Processing Systems for Colorado Agricultural Education”, Colorado Community College System, Ft. Collins, CO*

2009 “Developing Course Outlines” Ag Ed Summer Institute, Sterling, CO*

Program Development Presentations:

2023, May, State FFA Officer Lightening Talks, A culmination experience of the Come to the Table Leadership Program, Denver, CO, *Organizer*

2023 – 2024, Weekly Teaching to State FFA Officers (Morgridge Scholars in Agriculture) – CAS Come to the Table Leadership Program, Denver, CO (12 lessons)

2022, October, Accessible Agricultural Education – presented to the CSU Board of Governor’s fall meeting, Ft. Collins, CO*

2022, September 1, September 6, November 17, DIGS training – Enns, K., MacPherson, M., *presenter* (virtual) to Colorado Extension

2022, January, “Disrupting Agriculture Career Pathways – CAM’s Learning Lab” – Presented to Mindspark Learning, Ft. Collins, CO

2022 – 2023, Weekly Teaching to State FFA Officers (Morgridge Scholars in Agriculture) – CAS Come to the Table Leadership Program, Denver, CO (24 lessons)

2022, October, Get to Know your Spur: Program Opportunities presented at CSU Extension Forum, Ft. Collins, CO*

2021 “Everyone DIGS Agriculture” Teacher Professional Development, Hayden, CO*

2021, July. Agricultural Education at CSU: An update to Colorado Retired Vocational Agriculture Teachers Association, Fort Collins, CO*

2014 “Agricultural Education at CSU: Partnered with Excellence” Invited presenter to the College of Agricultural Sciences Meeting, Fort Colling, CO*

2013 “Purposeful Design of Undergraduate Programs in Agribusiness”, Symposium for the Western Agricultural Economics Association Annual Meeting, Presented by Frasier, M., Peterson, H., Deibel, P., & Enns K. Monteray, CA.*

2013 “Building Farmers in the West: Innovative Approaches to Engage and Evaluate a New Set of Stakeholders” Symposium for the Western Agricultural Economics Association Annual Meeting, Presented by Thilmany, D., Gray, W., Warner, J., (collaborators of Sullins, M., Card, A., & Enns, K.).

2012 “CYFEA, where do we go from here?” Workshop facilitated for the Colorado Young Farmer Educational Association Officer Retreat, Fort Morgan, CO*

2012 “Lessons Learned from Simultaneous Online and Live Course Offerings”, DARE Online Teaching Seminar, Presented by Enns, K., & Pendell, D., Fort Collins, CO

2012 “Online Breeding and Genetics Course Evaluations. Presented by Hart, L., & Enns, K., DARE Online Teaching Seminar, Fort Collins, CO

2012 “Lessons Learned from Simultaneous Online and Live Course Offerings, College of Agricultural Sciences Master Teaching Initiative. Presented by Enns, K. and Pendell, D, Fort Collins, CO

2011 Agricultural Education: A Program Review, Colorado State University, Facilitator and Presenter, Fort Collins, CO

2010 Leadership and Young Farmers, Colorado Young Farmers Educational Association Officer Training, *Presented by:* Enns, K., Thorn, D., and Womochil, M., Fort Morgan, CO*

2009 “Where are We? Understanding the Status of Colorado Ag Ed,” Ag Ed Summer Institute, Presenter, Sterling*

2008 “Colorado Secondary Programs of Ag Ed: Perceptions of Sustainability,” Colorado Agricultural Education Summer Institute, Colorado Vocational Agriculture Teachers Association, Presenter, Fort Collins, CO*

Agriculture Teacher Recruitment/Retention Presentations:

2023 CAS Recruitment Booth, National FFA Convention, *Participant*

2023 One for the Future, Agriculture Teacher Recruitment Luncheon, Colorado FFA Convention, *Organizer*

2022 CAS Recruitment Booth, National FFA Convention, *Participant*

2022 One for the Future, Agriculture Teacher Recruitment Luncheon, Colorado FFA Convention, *Organizer*

2021 October, Brown, S. & Enns, K., Transferring to CSU. Recruitment workshop presented to Northeastern Junior College Students, *Organizer and Presenter*, Sterling, CO

2021, June. "Tagged to Teach Agriculture" Workshop for the State FFA Convention, Delta, CO and Sterling CO, *Presenter* (6 repeating sessions)

2021, November, Colorado Teach Ag Day. Workshop for potential agriculture teachers. (*Organized and presented virtually.*)

2020, November, Colorado Teach Ag Day. Workshop for potential agriculture teachers. (*Organized and presented virtually.*)

2019 "One for the Future," Colorado State FFA Convention, *Organizer and Presenter*, Sterling, CO

2018, "One for the Future," Colorado State FFA Convention, Colorado State University Pueblo. *Organizer and Presenter*, Pueblo, CO

2018 "Lock in for Agriculture," Colorado State FFA CDE Recruitment Activity, *Organizer*, Fort Collins, CO

2017 "One for the Future," Colorado State FFA Convention, Colorado State University Pueblo. *Organizer and Presenter*, Pueblo, CO

2015 "One for the Future," Colorado State FFA Convention, Colorado State University Pueblo. *Organizer and Presenter*, Pueblo, CO

2014 "Tag your Replacement" Colorado FFA Association Made for Excellence Leadership Conference, *Organizer and Presenter*, Colorado Springs, CO

2014 "Colorado State FFA Officer Agriculture Values Training and Recruitment," *Organizer and Presenter*, Fort Collins, CO

2014 "Rambrand." Selecting CSU College of Agricultural Sciences for your Transfer Institution, *Presenter*, Sterling, CO

2013 "One for the Future" Colorado State FFA Convention, Northeastern Junior College, *Organizer and Presenter*, Sterling, CO

2013 "Colorado State FFA Officer Recruitment," *Organizer and Presenter*, Fort Collins, CO

2013 "Rambrand." Selecting CSU College of Agricultural Sciences for your Transfer Institution, *Presenter*, Sterling, CO

2012 "One for the Future" "One for the Future," Colorado State FFA Convention, *Organizer and Presenter*, Colorado State University Pueblo, Pueblo, CO

2012 “Colorado State FFA Officer Recruitment,” *Organizer and Presenter, Fort Collins, CO*

2012 “Rambrand.” Selecting CSU College of Agricultural Sciences for your Transfer Institution, *Organizer and Presenter, Sterling, CO*

2011 “Colorado State FFA Officer Recruitment,” *Organizer and Presenter, Fort Collins, CO*

2011 “One for the Future,” Colorado State FFA Convention, *Organizer and Presenter, Alamosa, CO*

2010 “One for the Future,” Colorado State FFA Convention, *Organizer and Presenter, Craig, CO*

2010 TAG Your Replacement - the Need for Recruitment in Agricultural Education, Mid-Winter Conference, Colorado Vocational Agriculture Teachers Association, *Presenter, Colorado Springs*

2009 “One for the Future,” Colorado State FFA Convention, *Organizer and Presenter, Greeley, CO*

2008 Transfer Workshop for Agricultural Education, Northeastern Junior College, *Presenter, Sterling, CO*

Agriculture Literacy Presentations:

2023, September, CAM’s Classroom at Highland Elementary School FFA Day, Pierce, CO*

2023, August, CAM’s Agriculture Academy at Routt County Fair, Hayden, CO*

2023, July, RamScholars Program, Day Lead, Fort Collins, CO*

2023, June, Developing Effective Lesson Plans, Presented to CAM’s Summer Extension Interns, Ft. Collins, CO*

2023, March, Career Exploration and Ag Literacy and Field Trip for Highland Middle School (124 students) to CSU, Ft. Collins, CO*

2023, January, CSU Ag Adventure at National Western Stockshow, Denver, CO*

2022, August, CAM’s Classroom at Colorado State Fair, Pueblo, CO*

2022, July, CAM’s Classroom at Mesa County Fair, Grand Junction, CO*

2022, January. CAM’s Classroom at SPUR; National Western Stockshow. Presented 6 different days*

2021, September, Truth or Hog Wash? An Ag Literacy presentation given to Highland Elementary School FFA Day, Pierce, CO*

2020, September, CAM’s Classroom at Highland Elementary School FFA Day, Pierce, CO*

2018 Garden in a Glove – Presented to North Forty 4H Club, May Meeting, Wellington, CO*

2019, Agriculture Trivia Golf, Highland Elementary School FFA Day, Pierce, CO*

2019, Engaged Scholarship – Teaching Content to Youth - Ag Literacy Lessons, Highland Elementary School Fourth Grade (presented with graduate students)*

2017 Agriculture in the Classroom – Experiencing Food and Agriculture: 8 Agriculture Enrichment Lessons presented by AGED 220 to Rice Elementary Afterschool Program (presented with graduate students)*

2017 “Garden in a Glove” and “Butter Making” Presented to Rice Elementary School Science Night, Enns, K., Clark, N., 12 undergraduate students, Wellington, CO*

2015 “Garden in a Glove” and “Butter Making” Presented to Rice Elementary School Science Night, Enns, K., Clark, N., Martin, M., 12 undergraduate students, Wellington, CO*

2014 “Garden in a Glove” Presented to Rice Elementary School Science Night, Enns, K., N. Clark, M. Martin, Rudder, E., (undergraduate), Stevens, B., (undergraduate) & Dreitz, R., (undergraduate), Wellington, CO*

2014 “A Call to Action” Colorado Young Farmers Educational Association Curriculum Project Pilot. Presented to Colorado Young Farmers Educational Association, Martin, M., & Enns, K., Windsor, CO*

2010 Food Quest: An Agricultural Literacy Opportunity, Colorado State University President's Agriculture Advisory Committee, Enns, K., & Irlbeck, N., Brighton, CO*

2009 “Career Awareness and Developments in Agriculture,” Colorado Foundation for Agriculture Summer Institute, Fort Collins*

COMMITTEES

Colorado State University Extension, 4H Director Search Committee, 2023

Colorado State University, SPUR Campus, Education Director Search Committee, 2020

Colorado State University, Faculty Council Committee on Libraries, 2014- 2021

Colorado State University, College of Agricultural Sciences Dean Search Committee, 2019-2020

College of Agricultural Sciences, Leadership Strategic Plan, Co-Champion, 2020

College of Agricultural Sciences, Academic Affairs Committee, 2008-2012, 2021-2023

College of Agricultural Sciences, Student Affairs Committee, 2015-2019

College of Agricultural Sciences, Scholarship Selection Committee, 2009-2015

College of Agricultural Sciences, Agriculture Ambassador Selection Committee, 2010

College of Agricultural Sciences, Agriculture Ambassador Leadership Training, 2011

College of Agricultural Sciences, Department of Agricultural and Resource Economics Department Chair Search Committee, 2010-2011

College of Agricultural Sciences, Assistant Director Academic Programs Search Committee, member, 2010

College of Agricultural Sciences, RamCamp, 2008 to 2021

Colorado State University Extension, Douglas Country Extension Search Committee, member, 2010

College of Health and Human Sciences, Center for Education Preparation, Committee Member 2008- present

Department of Agricultural and Resource Economics, Undergraduate Committee, member, 2008-2013, 2018-present

Department of Agricultural and Resource Economics, Executive Committee, 2019 to present

Department of Agricultural and Resource Economics, Faculty Promotion Mentoring Chair – Mike Martin (2013-2019), Nathan Clark (2012-2020), Holli Campbell (2016-2021), Dr. Aryn Baxter (2022-Present), Jenny Bennett (2020-Present), Dessa Watson (2020-Present), Heather Crabtree (2023-Present), Katharine Eshelman (2023-Present).

Department of Agricultural and Resource Economics, Strategic Planning Committee, member, 2010

Department of Agricultural and Resource Economics, Agricultural Education Undergraduate Review Committee, Chair, 2011-2012

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Journal of Agricultural Education Managing and Editing Board, 2020-2023, Reviewer, 2024

NCAC-024 Agricultural Education Research Committee, member, 2014 to 2020

W 4006, Multistate Agricultural Research Committee Proposal, Member – 2024-present

W 3006 Agricultural Literacy Multistate Committee, Committee Member, 2019-2023

W-2006 Agriculture Literacy Regional Research Committee, member, 2011-2012, Vice Chairman, 2013, 2014-2018

Agricultural Literacy, AAAE SIG, member, 2013, 2014-2016
Ag Ed Alliance (formerly Alpha Tau Alpha at Colorado State University), Ag Ed Student Organization, co-advisor, 2005-present
American Association Agricultural Education Research Conference Manuscript Review, 2014, 2015, 2018, 2019, 2020, 2022, 2023
American Association Agricultural Education Research Conference Poster Abstract Review, 2008, 2014, 2015, 2016, 2017, 2018
American Association Agricultural Education Conference Poster Judge, 2011
Western Region American Association of Agricultural Education Research Poster Judge, 2010, 2011, 2012, 2014
Western Region American Association Agricultural Education Research Conference Manuscript Review, 2014 – 2015, 2021
Southern Region American Association Agricultural Education Research Conference Manuscript Review, 2014, 2022
North Central Region American Association Agricultural Education Research Conference Manuscript Review, 2014

SERVICE WITH EXTERNAL PARTNERS AND COMMUNITIES

NE3 project development team, Organizer, 2023-present
Colorado TEAM AgEd (Leadership Team for Colorado Agricultural Education), member, 2006-present
Colorado FFA Foundation, ex-officio member, 2008-present
National Quality Program Standards for Secondary Agricultural Education, Pilot Study State, team member, 2008
National Agriscience Integration Team, state team member, 2011

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

CAM's Agriculture Academy, Learning Lab at SPUR, Proposal Captain – 2021 - present
Colorado State FFA Career Development Events, *Event Manager* (over 1700 students annually), 2014 - present
Colorado State FFA Agricultural Mechanics, *Event Superintendent* (118 students annually), 2009, 2010
Colorado State FFA Leadership Development Events, *Event Manager* (230 students annually), 2009 to 2019
Come to the Table Leadership Development Program (for State FFA Officers), Co-Organizer and Facilitator, 2022-present

Citations Referenced:

Felten, P. (2013). Principles of good practice in SoTL. *Teaching & Learning Inquiry*, 1(1), 121-125. Retrieved from <https://ezproxy2.library.colostate.edu/login?url=https://www.proquest.com/scholarly-journals/principles-good-practice-sotl/docview/2093179527/se-2>

Potter, Michael K. and Kustra, Erika D.H. (2011) "The Relationship between Scholarly Teaching and SoTL: Models, Distinctions, and Clarifications," *International Journal for the Scholarship of Teaching and Learning*: Vol. 5: No. 1, Article 23. Retrieved from: <https://doi.org/10.20429/ijstl.2011.050123>