

Keith J. Frost

Curriculum Vitae

Education

Texas Tech University- Lubbock Texas
Ph.D. Agricultural Communications and Education 2019

Oregon State University- Corvallis Oregon
M.S. Agricultural Education 2014
B.S. General Agriculture *Summa Cum Laude* 2006
Minor: Animal Science
Minor: Business

Professional Experience - Teaching

Texas A&M – Commerce **2019- Present**

Assistant Professor and Program Coordinator for Teacher Certification in Agricultural Education

- Actively organized and executed all elements of teacher certification for undergraduate certification students as well as graduate and alternate certification programs in concert with the College of Education.
- Organized and restructured scope and sequence of undergraduate course in agricultural education to increase learning opportunities.
- Developed and submitted curriculum for a new program in agricultural leadership and communications with the intention they will become two separate programs over time.
- Served in an outreach and recruiting capacity at high schools and FFA events throughout the region.
- Assisted in hosting invitational LDEs and served as the CDE superintendent for Texas FFA Areas V and VI.
- Advisor for Collegiate FFA and worked to create an overarching student organization to house the students in agricultural leadership, education, and communication.
- Member of the following university and college committees: Curriculum and Scheduling, Faculty Development and Grants, Faculty Development and Leave, Undergraduate Scholarships, the Advisory Committee for Alternative

Certification as well as research committees for one each honors, masters, and doctoral student.

- Advised undergraduate and graduate students using Degree Works.
- University representative for the Texas Agriculture Consortium and the STAR program.

Courses of Instruction (A&M- Commerce)

- Instructional Management – AFE 570
- Practicum in Teaching – AFE 573
- Assessment and Evaluation – AFE 574
- Field Experience in Teaching – AFE 579
- History and Philosophy of Agricultural Education – AFE 597a
- Experiential Learning Opportunities in Agricultural Education – AFE 597b
- Agricultural Education and Curriculum Design – AG 297
- Internship in Agricultural Industries – AG 405
- Honors Individual Readings – AG 491
- Adult Education – AG 503
- Qualitative Research Methods – AG 504
- Thesis – AG 518
- Youth Leadership Organizations in Agricultural Education – AGED 371
- Student Teaching in Secondary Schools – AGED 465
- The Program of Instruction in Agricultural Science and Technology – AGED 471

Texas Tech University – Lubbock Texas

2016- 2019

Doctoral Graduate Teaching Assistant

- Adapted, revised, and developed units, lessons, and assessments for undergraduate and graduate courses.
- Collaborated with faculty of other colleges to assure contiguity of aligned courses.

- Participated in major area (Agricultural Education – Teacher Preparation) meetings to revise and realign program course map, sequence and flow.
- Assisted in coordinating and executing experiential learning events (FFA Career and Leadership Development Events) at the local, area, and state level.
- Served as the university supervisor for 10 pre-service teachers during their field experiences. (3 in 2017, 4 in 2018, 3 in 2019)
- Graduate Student Advisor for the Collegiate FFA Chapter.
- Advised three undergraduate students (2018) using Degree Works.
- Presented orientation and recruiting content to new and prospective undergraduate students.
- Advised and coached fellow doctoral students with limited teaching experience in lesson development, curriculum planning, and student management issues.
- Served as guest presenter and evaluator in multiple agricultural education courses.

Courses of Instruction (TTU)

- Introduction to Teaching - AGED 3100 (Lead Instructor)
- Introduction to Agricultural Education -AGED 2300 (Co-Instructor)
- Developing Secondary Agricultural Education Programs -AGED 3333 (Teaching Assistant)
- Methods of Teaching Agricultural Science -AGED 4404 (Teaching Assistant)

Eagle Point School District – Eagle Point Oregon

2007-2016

Agricultural Science and Technology Instructor

- Developed and taught coursework in the areas of Animal Science, Agricultural Science, Leadership and Communication, and Agricultural Mechanics.
- Planned and organized all facets of the Agricultural Science and Technology program including working with advisory committees, regional Perkins coordinators, as well as the State Career and Technical Education specialist in Agriculture and Natural Resources.
- Adapted curriculum and revamped course scope and sequence to provide more opportunities for science and college credit (ANS 121 and AG 111), specializing instruction, and differentiating courses from other similar programs.
- Advised members in Supervised Agricultural Experiences in all areas of meat animal production (entrepreneurship and placement) as well as wildlife

management, outdoor recreation, agricultural processing, and nearly every other proficiency area.

Eagle Point FFA Advisor

- Coached Career Development Event teams in:
 - Agricultural Sales, Rituals – District winner for seven consecutive years,
 - Parliamentary Procedure, Public and Creed Speaking, Agricultural Mechanics, Meats Evaluation, and Livestock Evaluation – 4th Place Nationally
- Led and coached officer teams in directing the work of the chapter in areas of community service, chapter marketing, program development, and growth.
- Created and executed annual benefit auctions for the chapter that grossed nearly \$200,000 to support members and the aims of the chapter.
- Assisted in changing the marketing and organization of annual plant sales that grew (in gross sales) from \$17,000 to over \$30,000.

Secondary Courses of Instruction

- **Zoology – Livestock Production-** A survey of fundamental concepts on the history and origins of agriculture and agricultural education with an emphasis on leadership skills and development as well as a focus on basic animal science units.
- **Science in Agriculture-** This course provided further development in the concepts of science and how those concepts related to agriculture. Additional focus provided essential skills necessary for further studies and experiences in agricultural science courses through the “three-circle” model of agricultural education.
- **Animal Anatomy-** Focused on lecture, dissection, and lab activities. This class explored the skeletal, muscular, circulatory, respiratory, and reproductive systems of animals as it relates to the functionality of production livestock as well as livestock physiology, animal health, reproduction, artificial insemination, dissection, and surgical techniques. The course also addressed basic practices and skills used in veterinary medicine as well as contentious issues in agriculture, industry leadership, and business applications.
- **Leadership in Agriculture-** Capstone course in Agricultural Science and Technology at Eagle Point High School that replaced the Senior Seminar course for Program Concentrators. Students received instruction, counseling, and advising in applying for college and post-secondary institutions to further the student’s individual education and career opportunities. Additional focus was placed on business writing, leadership, research, communication, finance, and record-keeping. Students received guidance in applying for scholarships, financial aid, and other helpful assistance. In addition, students completed the Extended Application portion of the Oregon and EPHS Diploma Requirements.

- **Agricultural Mechanics – Introductory, Advanced, and Fabrication-** A series of three courses that stressed professionalism and workplace skills as students developed knowledge and understanding of principles in cutting processes, oxy-fuel welding, Welding Processes (SMAW, GMAW, GTAW), layout, design, and fabrication. Additional units focused on electrical principles, small engine theory, and metrology.

Additional Secondary Courses Taught: Zoology-Animal Science, Agricultural Science III / IV, Metals 1, Metals Fabrication, Landscape Design

Research Publications and Activities

Papers

- Doss, W, **Frost, K.J.**, & Rayfield, J. (2020). The impact of time spent student teaching on the decision to enter the field: A longitudinal study. *Journal of Agricultural Education*. 63(2), 264-288. Doi: 10.5032/jae/2020.02264
- Frost, K. J.**, & Rayfield, J. (2020). Decision to Enter the Classroom as an Agriculture Teacher: An Exploratory Qualitative Investigation. *Journal of Agricultural Education*. 62(1), 247-261. Doi: 10.5032/jae/202001247
- Gikunda, R. M., Boren, A, **Frost, K. J.**, & Gilliam, K. C. (2019). Understanding role establishment, leadership, and motivation for role selection in agricultural education student teams. *NACTA Journal*. 63(2).
- Doss, W., Rayfield, J., Murphy, T., & **Frost, K. J.** (2019). Examining agricultural mechanics projects and their use as supervised agricultural experiences in Texas. *Journal of Agricultural Education*. 60(3), 62-79. Doi: 10.5032/jae/2019.03062
- Frost, K. J.**, Rayfield, J., Lawver, D., & Ritz, R. (2018). Allocation of time among preservice teachers during their clinical experience. *Journal of Southern Agricultural Education Research*. 68(2018)
- Ataei, P., Khatir, A., Izadi, N., & **Frost, K. J.** (2018). Environmental impact assessment of artificial feeding plans: The Hammami Plain in Iran. *Environmental Quality* (27), 19-38. Doi: 10.6092/issn.2281-4485/7345

Conference Research Presentations

- Frost, K. J.**, & Rayfield, J. (2020). *A Comparison of Current and Ideal Program Balances Across Three States*. Presented at the National Research Conference of the American Association for Agricultural Educators. Virtual Delivery.
- Doss, W., **Frost, K.J.**, & Rayfield, J. (2020) *A Longitudinal Study on the Impact of Time Spent Student Teaching on the Decision to Enter the Field*. Presented at the Southern Regional Conference for the American Association for Agricultural Educators. Louisville, KY.

Frost, K. J., & Rayfield, J. (2019). *Decision to Enter the Classroom as an Agriculture Teacher: An Exploratory Qualitative Investigation*. Presented at the National Research Conference of the American Association for Agricultural Educators. Des Moines, IA.

Frost, K. J., & Rayfield, J., Lawver, D., & Ritz, R. (2018). *Allocation of time among preservice teachers during their clinical experience*. Presented at the National Research Conference of the American Association for Agricultural Educators. Charleston, SC.

Conference Poster Presentations

Frost, K. J., & Rayfield, J. (2019). *Delphi Consensus Levels over 30 Years in the Journal of Agricultural Education*. Research poster session presented at the National Conference of the American Association for Agricultural Educators. Des Moines, IA.

Frost, K. J., & Rayfield, J. (2019). *Defining Programmatic Balance in School Based Agricultural Education Programs: A Modified Delphi Study*. Research poster session presented at the National Conference of the American Association for Agricultural Educators. Des Moines, IA.

Frost, K. J., Huston, M., & Rayfield, J. (2019). *A Chi-Square Analysis of a Potential Relationship Between Hours Worked as a Student Teacher and Career Choice and Decision to Teach*. Research poster session presented at the National Conference of the American Association for Agricultural Educators. Des Moines, IA.

Frost, K. J., Doss, W., & Rayfield, J. (2019). *Comparing the Allocation of Time of Individual Student Teachers in the Roles of FFA Advisor and School Based Agricultural Teacher in Two Cohorts*. Research poster session presented at the National Conference of the American Association for Agricultural Educators. Des Moines, IA.

Doss, W., Frost, K. J., & Rayfield, J. (2019). *Analyzing Time Spent as an FFA Advisor and School Based Agricultural Education Teacher During Two Student Teaching Cohorts*. Research poster session presented at the National Conference of the American Association for Agricultural Educators. Des Moines, IA

Lindsey, H., Frost, K. J., & Rayfield, J. (2019). *Comparison of Time Through Student Teaching*. Research poster session presented at the National Conference of the American Association for Agricultural Educators. Des Moines, IA.

Frost, K. J., & Rayfield, J. (2018). *Decision to enter the profession: An exploratory qualitative investigation*. Research poster session presented at the Western Region Conference of the American Association for Agricultural Educators. Boise, ID.

Frost, K. J., Doss, W., & Rayfield, J. (2018). *Comparing the Allocation of Time of Individual Student Teachers in the Roles of FFA Advisor and School Based Agricultural Teacher in Two Cohorts*. Research poster session presented at the Western Region Conference of the American Association for Agricultural Educators. Boise, ID.

- Doss, W., **Frost, K. J.**, & Rayfield, J. (2018). *Analyzing Time Spent as an FFA Advisor and School Based Agricultural Education Teacher During Two Student Teaching Cohorts*. Research poster session presented at the Western Region Conference of the American Association for Agricultural Educators. Boise, ID. **Awarded Best Designed Research Poster**
- Lindsey, H., **Frost, K. J.**, & Rayfield, J. (2018). *Comparison of Time Through Student Teaching*. Research poster session presented at the Western Region Conference of the American Association for Agricultural Educators. Boise, ID. **Awarded Most Innovative Research Poster**
- Frost, K. J.**, & Rayfield, J. (2017). *A comparison of hours among pre-service teachers in the roles of FFA Advisor and Classroom Teacher*. Research poster session presented at the Western Region Conference of the American Association for Agricultural Educators. Fort Collins, CO.
- Voges, S., Rayfield, J., & **Frost, K. J.** (2017). *Progression of time spent observing, preparing, and teaching throughout the student teaching experience*. Research poster session presented at the Western Region Conference of the American Association for Agricultural Educators. Fort Collins, CO.
- Spacek, A., Rayfield, J. & **Frost, K. J.** (2017). *Range in allocation of time of preservice teachers during their field experience*. Research poster session presented at the Western Region Conference of the American Association for Agricultural Educators. Fort Collins, CO. **Awarded Third Place Conference Poster**
- Frost, K. J.**, & Rayfield, J. (2017). *Using the Swivl package to foster reflection in pre-service teachers*. Poster session presented at the National Conference of the North American Colleges and Teachers of Agriculture. West Lafayette, IN.
- Frost, K. J.**, & Rayfield, J. (2017). *Swivl video capture package as a reflective tool for pre-service teachers*. Innovative poster session presented at the National Conference of the American Association for Agricultural Educators. San Luis Obispo, CA.
- Gilliam, K., Boren, A., Millares, C. & **Frost, K. J.** (2017). *Professional development needs of Nicaraguan agricultural educators*. Research poster session presented at the National Conference of the American Association for Agricultural Educators. San Luis Obispo, CA.

Invited Presentations

- Exploring Programmatic Balance. Presented to the National Conference of the National Association of Agricultural Education. Virtual Presentation. November 2020
- Leadership Development and Organizational Change. Presented to the Mandela Washington Fellows at the Young Africans Leaders Initiative. Texas Tech University. July 12, 2017
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Service Areas - Profession

- Journal of Agricultural Education – Reviewer (2020 – Eight Reviews)
- AAAE Southern Region Research Committee
- AAAE Southern Region *Ad Hoc* Committee for Regional Research Abstract Revision
- AAAE Presentation Abstract Reviewer 2019, 2020
- AAAE Poster Reviewer
 - National Conference 2019
 - Southern Region 2017, 2018
 - North Central Region 2018
 - Western Region 2017
- AAAE National Conference Research Presentation Facilitator 2017 & 2018
- CASNR “AgriTechsan” Interview Committee 2017
- Texas FFA Association Scholarship Review and Interview Committee
- Collegiate FFA Association at Texas Tech
 - Graduate Student Assistant Advisor 2017 & 2018
- Agricultural Education and Communications Graduate Student Association
 - Executive Committee – Treasurer
- National FFA Organization
 - National Livestock Evaluation CDE
 - Test Writer 2016, 2017, 2018, 2019
 - Contest Facilitator
- Oregon FFA Association
 - Co-Superintendent – Oregon State Fair Market Show
 - Assistant Superintendent – Beginning Public Speaking, Meat Goat Show
- Oregon Vocational Ag-Teachers Association
 - Awards Committee
 - Professional Development Committee
 - New Teacher Mentor Program
- Southern Oregon FFA District
 - Superintendent – Sophomore Public Speaking
 - CDE Host and Coordinator- Soils Evaluation, Agricultural Sales, District Proficiencies, District Officer Elections, Floriculture, State Degree Test Proctor
- Jackson County Ag-Teachers Association
 - Superintendent – FFA Sheep Show, Agricultural Mechanics
 - Assistant Superintendent- FFA Beef and Swine Show
 - Contest Coordinator – Livestock Judging: Class Selection and Official Committee Selection
- Eagle Point School District
 - Proficiency Grading Committee
 - Career Technical Education Department Steering Committee
 - Science Department Steering Committee
 - Design Grant Team
 - New Teacher Mentor Program
- Eagle Point Employee’s Association
 - Executive Council Member
 - Grievance Chair

Service Areas – University and College

- Core Curriculum Committee
 - 2020/2021
 - Alternative Certification Committee
 - 2019/2020,
 - 2020/2021
 - TEARAC (Teacher Admission, Retention, and Appeals Committee)
 - 2019/2020
 - 2020/2021
 - Faculty Development Leave Committee
 - 2019/2020
 - 2020/2021(Chair)
 - Faculty Development Grant Committee
 - 2019/2020
 - 2020/2021
 - CASNR Curriculum and Planning Committee
 - 2019/2020
 - 2020/2021
 - Representative for the Texas Agricultural Consortium
 - 2019/2020
 - 2020/2021
 - Representative for the STAR Teach-Ag Committee
 - 2019/2020
 - 2020/2021
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Grant Submissions

National Science Foundation – NSF-20-525-2045810 Integrative Organizational Systems – Integrative Ecological Physiology. The impacts of transgenerational consequences of climate change and extreme climate events on developing grassland birds. \$988,612 (**Status – In Review / Pending**)

Key Contributor – Educational Specialist

USDA-NIFA-NLGCA-006363 Capacity Building Grant for Non-Land Grant Universities Building capacity and meeting the demand: Increasing teacher certification avenues in Agricultural Education. \$149,783 (**Status – Fully Funded**)

Key Graduate Student Contributor

Academic Awards and Scholarships

- Presidential Fellowship - Texas Tech University
 - Garrison Agricultural Scholarship – Texas Tech University
 - Bob Herd Agricultural Scholarship – Texas Tech University
 - Dean’s List (4.0) in all terms – Oregon State University
 - 2005 winner Oregon State University - College of Business - Business Concept Competition
 - 2006 winner Jackson County Master Gardener Scholarship
 - 2005 - 2006 winner Oregon State University Drucilla Shepard-Smith scholastic award
 - 2005 - 2006 winner Oregon State University Waldo-Cummings scholastic award
Dean’s List and Letters of Commendation for Exemplary Performance
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Professional Awards

- Oregon Vocational Agriculture Teachers Association
 - Agricultural Science and Technology Program of the Year - 2016
 - Jackson County School District #9
 - Secondary Teacher of the Year - 2016
 - Oregon Vocational Agriculture Teachers Association
 - Agriculture Teacher of the Year - 2015
 - Honorary State FFA Degree – Oregon FFA Association 2015
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Professional Memberships

- American Association for Agricultural Education
- North American Colleges and Teachers of Agriculture
- Agricultural Teachers Association Texas
- Oregon Vocational Agriculture Teachers Association
- National Association of Agriculture Educators
- Phi Delta Kappa (Professional Educators Association)