

PETER D. SKELTON
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NMSU Extension and Research Youth Agricultural Science Center
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EDUCATION

Ph.D. Natural Resource Science, University of Nebraska, Lincoln, NE (2004)
M.A. Agricultural and Extension Education, New Mexico State University, Las Cruces, NM (1999)
B.S. Natural Resource Science, University of Nebraska, Lincoln, NE (1996)
B.A. English Literature, University of New Mexico, Albuquerque, NM (1992)

CURRENT AND PREVIOUS POSITIONS

2019-present	Professor and Director, NMSU Extension and Research Youth Agricultural Science Center, New Mexico State University, Las Cruces, NM
2014-2019	Associate Professor and Director, NMSU Extension and Research Youth Agricultural Science Center, New Mexico State University, Las Cruces, NM
2007-2014	Assistant Professor and Director, Memorial Middle School Agricultural Extension and Education Center, New Mexico State University, Las Cruces, NM
2006-2007	College Assistant Professor and Director, Memorial Middle School Agricultural Science Center, New Mexico State University, Las Cruces, NM
2005-2006	Postdoctoral Fellow, Agronomy and Horticulture Department, University of Nebraska, Lincoln, NE
2005	Postdoctoral Fellow, School of Natural Resources, University of Nebraska, Lincoln, NE
1999-2004	Graduate Research Assistant, School of Natural Resources, University of Nebraska, Lincoln, NE
1997-1999	Graduate Research Assistant, Department of Agricultural and Extension Education, New Mexico State University, Las Cruces, NM
1996	Research Assistant, USDA-National Agroforestry Center, Lincoln, NE
1996	Intern, Farming Systems Internship, University of Nebraska, Lincoln, NE

GRANTS

- NextGen youth hydroponics. American Ag Credit/Community Foundation (PI). \$5,000. April 2024 – March 2025.
- 4-H agriscience trunk: Integrating innovative technologies into school enrichment programs. NMSU CES (PI). \$5,000. January 2024 – December 2024.
- Growing healthy minds and bodies through fresh and local food. Las Vegas Community Foundation (PI). \$3,500. December 2020 – November 2021.
- Racing with the sun: Exploring renewable energy with youth at the NMSU Youth Ag Science Center. Southwest Capital Bank (PI). \$5,000. April 2020 – March 2021.

- Engaging youth in the principles and applications of photovoltaic systems at the NMSU Youth Ag Science Center. Public Service Company of New Mexico (PNM) (PI). \$10,000. May 2019 – April 2020.
- Raised bed gardens at the NMSU Youth Ag Science Center. Southwest Capital Bank (PI). \$3,750. April 2019 – March 2020.
- Ozobots: Creating with technology at the NMSU Youth Ag Science Center. Las Vegas Community Foundation (PI). \$5,000. January 2019 – December 2019.
- eTextile inventions. Southwest Capital Bank (PI). \$3,500. July 2018 – June 2019.
- Enhancements to the STEM classroom. Fonda Family Foundation (PI). \$7,000. January 2018 – December 2018.
- Seed to plate: Integrating science with real world growing. Public Service Company of New Mexico (PNM) (PI). \$10,000. September 2017 – July 2018.
- School gardens: Connecting science, math, and outdoor learning. Whole Kid Foundation Grant Program (PI). \$2,000. February 2017 – February 2018.
- Integrating aquaponics into the NMSU Extension and Research Youth Agricultural Science Center. Enchanted Life Foundation (PI). \$30,000. June 2016 – June 2019
- Enhancements to the STEM classroom. Fonda Family Foundation (PI). \$11,000. December 2015 – December 2016.
- Integrating technology into the STEM classroom. Fonda Family Foundation (PI). \$25,000. December 2013 – December 2014.
- School gardens. New Mexico Centennial Foundation (PI). \$2,500. April 2012 – September 2012.
- Rising Star award. New Mexico State University, Office of the Vice President for Research (PI). \$5,000. September 2011 – August 2012.
- Pre-service teaching: NMSU AXED agriscience class field activity at the MMSAEEC. Biophilia Foundation (PI). \$2,500. January - December 2011.
- Towards cleaner water: an ecology enrichment program. Los Alamos National Lab Foundation (PI). \$15,000. July 2010 - June 2011.
- Memorial Middle School youth development: summer ecology program, Biophilia Foundation (PI). \$2,500. July 2009 –August 2010.
- STEM Applications with Geospatial Technologies. Los Alamos National Lab Foundation (PI). \$5,100. June 2009 - May 2010.
- From the school farm to the cafeteria. Los Alamos National Lab Foundation (PI). \$1,500. January 2009 - December 2009.
- Renewable energy technologies. Los Alamos National Lab Foundation (PI). \$4,300. June 2008 - May 2009.
- Wind energy technologies. Los Alamos National Lab Foundation (PI). \$2,850. June 2007 – May 2008.
- Service learning program K-12. State of New Mexico Public Education Department (PI). \$120,000. July 2007 – June 2009.
- Healthy sprouts. KidsGardening.com (PI). \$200. December 2006.
- Expanding the adoption of riparian buffers using farmer-to-farmer extension. Agricultural Research Division, University of Nebraska (Co-PI). \$30,000. January 2005 – December 2006.

- Understanding the adoption of riparian forest buffers on private land in two Nebraska watersheds. Center for Great Plains Studies, University of Nebraska (PI). \$450. May 2004.

HONORS AND AWARDS

- Excellence in 4-H Club Support Award. National winner. 2024. National Association of Extension 4-H Youth Development Professionals (NAE4-HYDP).
- Excellence in STEM Award (STEMY). 2022. Air Force Research Lab New Mexico Tech Engagement Office.
- Jim Kahler Excellence in STEM. 2022. Western region winner. National Association of Extension 4-H Youth Development Professionals (NAE4-HYDP).
- Jim Kahler Excellence in STEM. 2022. New Mexico 4-H Agents Association Award.
- Beyond Youth Leadership Award. 2022. New Mexico 4-H Agents Association Award.
- Excellence in Teamwork. 2022. New Mexico 4-H Agents Association Award.
- Denise Miller Innovator Award. 2022. New Mexico 4-H Agents Association Award.
- Excellence in Science, Technology, Engineering, Mathematics Award. 2019. National winner. The National Association of Extension 4-H Agents (NAE4-HA).
- Excellence in Science, Technology, Engineering, Mathematics. 2019. New Mexico 4-H Agents Association Award.
- Distinguished manuscript. 2017. American Association of Agricultural Education Southern Region Conference.
- Founders Day award. 2015. Office of the University President, New Mexico State University.
- Western Extension and Research Directors Awards of Excellence. 2015. Regional Qualifier, The Memorial Middle School Agricultural Extension and Education Center.
- Western Extension and Research Directors Awards of Excellence. 2013. Honorable Mention, Exploring Energy Efficiency and Alternatives.
- Rising Star award. 2011. Office of the Vice President for Research, New Mexico State University.
- David and Anna Larrick student travel award. 2004. Agricultural Research Division, University of Nebraska.
- Wildwood Trust award. 2003. School of Natural Resource Sciences, University of Nebraska.
- Dean's award of excellence. 1999. College of Agriculture and Home Economics, New Mexico State University.
- Gamma Sigma Delta. 1998. Agricultural Honor Society.

PAPERS, ARTICLES AND ABSTRACTS PUBLISHED IN REFERREED JOURNALS AND PROFESSIONAL PERIODICALS

- Dormody, T. J., Skelton, P., Rodriguez, G., Dubois, D. W., & VanLeeuwen, D. 2021. Assessing the impact of a weather and climate curriculum on science comprehension among 8th grade agriscience students. *Journal of Agricultural Education*, 62(3), 153-166.

<https://doi.org/10.5032/jae.2021.03153>

- Hill, N., Dormody, T., Skelton, P. and Stogner, B. 2021. Constructing keyhole gardens to teach agriscience and agricultural literacy. *The Agricultural Education Magazine*, 93(6), 17-20.
- Dormody, T. J., Skelton, P., Rodriguez, G., Dubois, D. W., & VanLeeuwen, D. 2020. Science comprehension retention among youth agriscience students instructed in weather and climate. *Journal of Youth Development*, 15(6). DOI 10.5195/jyd.2020.902
- Dormody, T. J., Skelton, P., Rodriguez, G., Dubois, D. W., & VanLeeuwen, D. 2020. Lesson Worksheets: A Tool for Developing Youth Weather and Climate Science Comprehension. *Journal of Extension*, 58(2), Article v58-2rb7.
- Skelton, P. and T. Dormody. 2020. Using Keyhole Gardens to Enhance Agricultural Literacy: Perceptions of University Students and K-3 Teachers. *NACTA Journal*, 64(Supplement 1).
- Skelton, P. and T. Dormody. 2018. Preparing a University agriscience teaching methods class to design, deliver, and assess a preservice climate science teaching activity. *NACTA Journal*, 62(Supplement 1), 5.
- Skelton, P., K. Stair, J. Blackburn, N. Levy & T. Dormody. 2018. Agriscience education through inquiry-based learning: Investigating factors that influence the science competence of Hispanic middle school students. *Journal of Agricultural Education*, 59(1), 223-237.
- Skelton, P., T. Dormody, M. Haggard, E. Johnson, A. Monita, M. Pinnell, T. Runyan, S. Stuart, & M. Lewis. 2017. Using a University agriscience teaching methods class to test a science comprehension model on 8th grade science students [Abstract]. *NACTA Journal*, 61(Supplement 1), 17.
- Skelton P., T. Dormody & M. Lewis. 2016. Closing the science comprehension achievement gap through an extension youth development science comprehension learning model. *Journal of Extension*, 54(6), Article 6RIB6.
- Skelton, P., T. Dormody & P. Dappen. 2016. The Learning Tornado: An agriscience comprehension model [Abstract]. *NACTA Journal*, 60(Supplement 1), 85.
- Dormody, T., P. Skelton, H. Parker, T. Lee, C. Jaquez, D. Dooley & S. Church. 2016. Using a university class to develop and test an 8th grade climate science curriculum. [Abstract]. *NACTA Journal*, 60(Supplement 1), 15-16.
- Skelton, P., K. Stair, T. Dormody & D. VanLeeuwen. 2014. Determining the science, agriculture and natural resource, and youth leadership outcomes for students participating in an innovative middle school agriscience program. *Journal of Agricultural Education*, 55(4), 53-71.
- Skelton, P., B. Seevers, T. Dormody & F. Hodnett. 2012. A conceptual process model for improving youth science comprehension. *Journal of Extension*, 50(3), Article 3IAW1.
- Skelton, P., T. Dormody, M. Pattelena & P. Dappen. 2012. A model for improving the delivery of youth development programs by agricultural and natural resource educators [Abstract]. *NACTA Journal*, 56(Supplement 1), 60.
- Dormody, T., P. Skelton, J. Madrid & P. Dappen. 2011. A model for strengthening inquiry-based and experiential teaching approaches for agriscience educators [Abstract]. *NACTA Journal*, 55(Supplement 1), 54-55.
- Skelton, P., T. Dormody, J. Madrid & P. Dappen. 2011. Evaluating an experiential learning agriscience field day [Abstract]. *NACTA Journal*, 55(Supplement 1), 54.

- Dormody, T., P. Skelton, A. Pint & K. O'Byrne, K. 2011. A course to develop agriscience teachers. *The Agricultural Education Magazine*, 83(6), 25-27.
- Skelton, P. and B. Seevers. 2010. A new extension model: the Memorial Middle School Agricultural Extension and Education Center. *Journal of Extension*, 48(6), Article 6IAW5.
- Skelton, P. and T. Dormody. 2009. Adding context to content: The Memorial Middle School Agricultural Science Center model. *The Agricultural Education Magazine*, 81(5), 26-28.
- Hygnstrom, S.E., P.D. Skelton, S.J. Josiah, J.A. Gilsdorf, D.R. Virchow, J.A. Brandle, A.K. Jayaprakash, K.M. Eskridge & K.C. VerCauteren. 2009. White-tailed deer browsing and rubbing preferences for trees and shrubs that produce non-timber forest products. *HortTechnology*, 19(1), 204-211.
- Ahnström, J., J. Höckert, H. Bergeå, C. Francis, P. Skelton & L. Hallgren. Farmers and nature conservation: What is known about attitudes, context factors and actions affecting conservation? *Journal of Renewable Agriculture and Food Systems*, 24(1), 38-47.
- Skelton, P., S.J. Josiah, J.W. King, J.R. Brandle, G.A. Helmers & C.A. Francis. 2005. Adoption of riparian forest buffers on private lands in Nebraska, USA. *Journal of Small-Scale Forest Economics, Management and Policy*, 4(2), 185-204.
- Skelton, P.D., and S.J. Josiah. 2003. Improving urban tree care in the Great Plains: Impacts of the Nebraska Tree Care Workshop. *Journal of Extension*, 41(4), Article 4RIB4.

CONFERENCE PROCEEDINGS AND PRESENTATIONS

- Skelton, P., and T. Dormody. 2020. Using Keyhole Gardens to Enhance Agricultural Literacy: Perceptions of University Students and K-3 Teachers. 2020 North American Colleges and Teachers of Agriculture Virtual Conference. June 15-18, 2020.
- Skelton, P. and T. Dormody. 2018. Preparing a University agriscience teaching methods class to design, deliver, and assess a preservice climate science teaching activity. 2018 North American Colleges and Teachers of Agriculture Conference, Ames, Iowa, June 12-15.
- Skelton, P., K. Stair, J. Blackburn, N. Levy & T. Dormody. 2017. Agriscience education through inquiry-based learning: Investigating factors that influence the science competence of Hispanic middle school students. 2017 American Association of Agricultural Education National Conference, San Luis Obispo, California, May 15-19.
- Skelton, P., K. Stair, J. Blackburn, & N. Levy. 2017. Agriscience education through inquiry-based learning: Investigating factors that influence the science competence of Hispanic middle school students. 2017 American Association of Agricultural Education Southern Region Conference, Mobile, Alabama, February 5-7.
- Skelton, P., T. Dormody, & P. Dappen. 2016. The Learning Tornado: An Agriscience Comprehension Model. 2016 North American Colleges and Teachers of Agriculture Conference, Honolulu, Hawaii, June 20-24.
- Dormody, T., P. Skelton, H. Parker, T. Lee, C. Jaquez, D. Dooley & S. Church. 2016. Using a University Class to Develop and Test an 8th Grade Climate Science Curriculum. 2016 North American Colleges and Teachers of Agriculture Conference, Honolulu, Hawaii, June 20-24.

- Skelton, P. 2016. Charting a Course Towards Sustainability: Translating Sustainable Agriculture Principles into Practice for Youth. 2016 Extension Sustainability Summit. Portland, OR. April 5-7.
- Dormody, T., P. Skelton, P. Dappen, and K. Grant. 2015. A Rigorous Teaching Experience Through a Middle School Agriscience Field Day. 2015 American Association for Agricultural Education Annual Conference Proceedings. San Antonio, Texas. May 19-22. p. 1-4.
- Skelton, P. D., Stair, K. S., Dormody, T. J., VanLeeuwen, D. 2014. Cultivating New Methods for Teaching Middle School Agriscience. 2014 Western Region American Association for Agricultural Education Conference Proceedings. Kona, Hawaii. September 23-25. p. 410-412.
- Skelton, P., K. Stair, T. Dormody, and D. VanLeeuwen. 2013. Determining the science, agriculture and natural resource, and youth leadership outcomes for students participating in an innovative middle school agriscience program. 2013 Association for Career and Technical Education Research Conference. Las Vegas, Nevada. December 3-4.
- Skelton, P., K. Stair, T. Dormody, and D. VanLeeuwen. 2013. Determining the science, agriculture and natural resource, and youth leadership outcomes for students participating in an innovative middle school agriscience program. Western Region American Association for Agricultural Education Conference. Lubbock, Texas. September 23-25.
- Skelton, P., T. Dormody, M. Pattelena and P. Dappen. 2015. A Model for Improving the Delivery of Youth Development Programs by Agricultural and Natural Resource Educators. 2012 North American Colleges and Teachers of Agriculture Conference, River Falls, Wisconsin, June 25-29.
- Skelton, P. 2012. Innovative partnerships: The Memorial Middle School Agricultural Extension and Education Center model. Western Region 4-H Science Academy, Davis, California, March 26-28.
- Skelton, P., T. Dormody, J. Madrid and P. Dappen. 2011. Evaluating an experiential learning agriscience field day. 2011 North American Colleges and Teachers of Agriculture Conference, Edmonton, Canada, June 14-18.
- Dormody, T., P. Skelton, J. Madrid, and P. Dappen. 2011. A model for strengthening inquiry-based and experiential teaching approaches for agriscience educators. 2011 North American Colleges and Teachers of Agriculture Conference, Edmonton, Canada, June 14-18.
- Skelton, P., T. Dormody, A. Pint and P. Dappen. 2010. Youth science literacy and leadership development through the Memorial Middle School Agricultural Extension and Education Center. 2010 Western American Association for Agricultural Education Research Conference Proceedings. Great Falls, Montana. April 21-23, p. 365-367.
- Skelton, P., T. Dormody, and P. Dappen. 2009. Understanding the impacts of the Memorial Middle School Ag Science Center on youth development. Proceedings of the 62nd Annual Society for Range Management Meeting. Albuquerque, NM. February 8-12, Paper No. 2000-4.
- Francis, C.A., M.L. Schneider, P. Skelton, M. Schoeneberger, and G. Bentrup. 2005. Methods for designing future food systems in peri-urban areas. Proceedings of Visualizing Food and Farm Meetings, Agriculture, Food and Human Values Society. Portland, OR. June 11, p. 48-49.

- Skelton, P.D., S.J. Josiah, and J.R. Brandle. 2004. Factors affecting adoption of riparian forest buffers on private land in Nebraska. 1st World Congress of Agroforestry Abstracts. Orlando, FL. June 27 – July 2, p. 90.
- Skelton, P.D., S.J. Josiah, and J.R. Brandle. 2003. Understanding the adoption process: factors affecting the decision to install riparian forest buffers in two eastern Nebraska watersheds. Proceedings of the 8th Biennial Conference on Agroforestry in North America. Corvallis, OR. June 23-25.
- Awada, T., M.E.L. Perry, W. H. Schacht, and P. D. Skelton. 2003. Ecophysiological and yield responses of C₃ *Bromus inermis* and C₄ *Andropogon gerardii* to various canopy levels of *Fraxinus pennsylvanica*. Proceedings of the 8th Biennial Conference on Agroforestry in North America. June 23-25.
- Josiah, S.J., P.D. Skelton and H. Brott. 2003. Market-driven conservation: diversifying farm enterprises by producing woody florals in agroforestry systems. Proceedings of the 8th Biennial Conference on Agroforestry in North America. June 23-25.
- Skelton, P.D., S.J. Josiah, and J.R. Brandle. 2001. Understanding the adoption process: an agroforestry example. Proceedings of the 7th Biennial Conference on Agroforestry in North America. Regina, Saskatchewan. August 12-15, p. 321.
- Skelton, P.D., T.J. Dormody, and D.E. Hawkins. 1999. Profiling the activities at New Mexico outstate agricultural science and research centers. Proceedings of the 18th Annual Western Region Agricultural Education Research Conference, Corpus Christi, Texas p. 85-96.
- Skelton, P.D., T.J. Dormody, and D.E. Hawkins. 1999. The contributions of New Mexico State University outstate agricultural science and research centers to the mission. Proceedings of the 18th Annual Western Region Agricultural Education Research Conference, Corpus Christi, Texas p. 265-266.

PROFESSIONAL PRESENTATIONS AND WORKSHOPS

- Invited speaker. *Purpose, Place, and Connections to Land and Community*. University of New Mexico Honors College. April 30, 2025.
- Invited Speaker. *Environmental Education: Providing Context to Content*. Environmental Education of New Mexico. Virtual. September 29, 2022.
- Invited Speaker. *Nature Education: Thinking Big in a Small Way*. Cornell University Civic Ecology Lab. Virtual. July 20, 2022.
- Invited Speaker. *Cultivating New Methods to Teaching Youth Agriculture*. Dia de Agricultura. Las Vegas, NM. October 26, 2019.
- Invited Speaker. *Cultivating New Educational Models*. Los Alamos National Lab Foundation Educational Speaker Series. Santa Fe, NM. December 13, 2018.
- Poster presentation. *Innovative educational partnerships: The NMSU extension and research youth agricultural science center*. ACES Open House. Las Cruces, NM. April 14, 2018.
- Invited speaker. *Cultivating New Roles for Extension*. NMSU-ACES Emeritus breakfast. August 14, 2014.
- Invited workshop presenter, Fruit tree grafting workshop, Valencia County, NM. March 9, 2012.

- Invited workshop presenter, Fruit tree grafting workshop. Valencia County, NM. March 11, 2011.
- Invited speaker, *Agricultural and natural resource science programs at the Memorial Middle School Agricultural Extension and Education Center*, Women in Agriculture Conference and Resource Fair. Las Vegas, NM, October 20, 2010.
- Invited speaker, *Impacts of the Memorial Middle School Agricultural Extension and Education Center on teaching and learning*, Las Vegas City Schools Board of Education Meeting. Las Vegas, NM, August 17, 2010.
- Conference session moderator, New Mexico Organic Farming Conference, Albuquerque, NM, February 19-20, 2010.
- Invited speaker, *Experiential education in natural resource science: the Memorial Middle School Agricultural Extension and Education Center model*, New Mexico Section of the Society for Range Management, Albuquerque, NM, January 7, 2010.
- Invited contributor. *Educating youth about sustainability*. Las Vegas Optic. SynergyFest Insert, April, 2009.
- Invited speaker, *The Memorial Middle School Agricultural Science Center*, New Mexico Office of the State Engineer Water Use in the Rio Gallinas, Las Vegas, NM, March 31, 2009.

UNIVERSITY COMMITTEES

- Graduate Faculty (2009 to present)
- Faculty Senate Leadership Committee (2023-2024)
- Faculty Senate (2022-2024)
- ACES P&T Committee (2020 to present)
- 4-H and Youth Development Department P&T Committee chair (2020 to present)
- STEM Education Hub/Center Strategic Planning (2022-2023)
- Faculty Annual Evaluation Process Improvement Ad Hoc Committee (2021-2023)

4-H PROGRAMS (4-H STEM)

Workshops

- Save the Scraps: A Food Waste Fix. 4-H Youth Get Away. April 12, 2025. (Hands-on youth agriscience program on food waste.)
- 4-H Science Trunk. NM 4-H Adult retreat. Albuquerque, NM, November 9, 2024. (Hands-on youth Agriscience program on indoor growing agricultural innovations.)
- Ozobots. 2024. 4-H FCS School. Albuquerque, NM, March 9, 2024. (Hands-on youth STEM program on robotics basics.)
- Renewable Energy: Steering the Course. 2023. 4-H FCS School. Albuquerque, NM, March 11, 2023. (Hands-on youth STEM program on renewable energy.)
- Beginning Robotics: Easy Operation and Coding. New Mexico 4-H Adult Forum 2021. Clayton, NM, November 6, 2021. (Hands-on training 4-H Volunteer leaders on NM 4-H Ozobot operation and programming.)
- Robotics: Operation and Coding. 2019 New Mexico 4-H Home Ec School. Los Lunas, NM, March 16, 2019. (Hands-on youth STEM program on robotics basics.)

- Aero-Science: Straw Rockets. 2018 New Mexico 4-H Home Ec School. Los Lunas, NM, March 10, 2018. (Hands-on youth STEM program in the basics of rocket design, data analysis and hypothesis testing.)
- What's up with the wind?: Designing and building a wind turbine. 2017 New Mexico 4-H Home Ec School, Belen, NM. March 11, 2017. (Hands-on youth STEM program.)
- NM 4-H Science Trunks. 4-H In-service, Albuquerque, NM. November 16, 2016. (Hands-on training for County Agents on NM 4-H Science Trunks curriculum and materials.)
- Electric U: designing and building a solar car. 2016 New Mexico 4-H Home Ec School, Belen, NM. March 12, 2016. (Hands-on youth STEM program.)
- National Youth Science Day: Motion commotion. 4-H In-service, Albuquerque, NM. November 18, 2015. (Hands-on training for County Agents on 4-H Youth Science Day curriculum and materials.)
- Renewable Energy Literacy. 2015 New Mexico 4-H Adult Forum, Albuquerque, NM. November 14, 2015. (Hands-on training for adult leaders in renewable energy.)
- Electronics and Circuits. 2015 Northeast District 4-H Contest. Taos, NM. June 24, 2015. (Hands-on youth STEM program.)
- Tech Trek on Strings. 2015 New Mexico 4-H Home Ec School. Belen, NM. March 14, 2015. (Hands-on youth STEM program.)
- Solar Technology. 2014 Northeast District 4-H Contest. Santa Rosa, NM. June 25, 2014. (Hands-on youth STEM program.)
- Engaging 4-H Youth in Renewable Energy Technologies. Four Corners 4-H In-Service. May 2, 2012. (Hands-on training using interactive renewable energy technology.)
- 4-H Science Opportunities. State 4-H Conference. July, 13 2011. (Training to make 4-H Agents aware of opportunities in 4-H Science.)
- Principles of Renewable Energy: Practical Activities to Engage 4-H youth. 4-H Western Region Leaders Forum. Albuquerque, NM, March 12, 2010. (Hands-on training on principles of renewable energy and hands-on training using interactive renewable energy models.)

Presentations

- Are Double Stuf Oreos Really Double Stuffed? 2023. 4-H In-service. Ruidoso, NM, November 9, 2023. (Training for County Agents on STEM activities and curriculum)
- Junk Drawer Robotics. 2023. 4-H new agent training. February 24, 2023. (Hands-on training for County Agents on STEM activities.)
- STEM Grab and Go. 4-H In-service. Albuquerque, NM, December 7, 2021. (Hands-on training for County Agents on STEM activities.)
- Integrating Healthy Living with Horticulture, Agriculture, and Outdoor Learning. 4-H In-service, Bernalillo, NM. December 7, 2017. (Training for County Agents on ag and healthy living activities.).
- NM 4-H Life Science Trunk. 4-H In-service, Albuquerque, NM. December 4, 2017. (Hands-on training for County Agents on NM 4-H Science Trunks curriculum and materials.)
- Inquiry-based learning. Just Be It! Curriculum team meeting. Santa Fe, NM. August, 31 2016. (Training on integrating inquiry-based learning into the JBI curriculum.)

- 4-H and the Maker Movement: What's old is new. 4-H In-service, Albuquerque, NM. November 17, 2015. (Increase County Agent awareness about the maker movement and opportunities for 4-H programs.)
- 4-H Science Curriculum under Development. 4-H In-service, Albuquerque, NM. November 18, 2014. (Increase County Agent awareness about 4-H science curriculum and science trunks in development.)
- 4-H Science Curriculum under Development. 2014. New Mexico 4-H Adult Leaders Forum. Albuquerque, NM. November 8, 2014. (Poster to increase volunteer awareness about 4-H science curriculum in the development phase.)
- The School Garden: Science, Technology, Engineering and Mathematics (STEM) and Public Health. 4-H In-Service. November 6, 2013. (Increase County Agent awareness using school gardens to support STEM and health programs.)
- The Memorial Middle School Agricultural Extension and Education Center. 2012. New Mexico 4-H Adult Leaders Forum. Albuquerque, NM. November 10, 2012. (Poster to increase volunteer awareness about the MMSAEEC and 4-H Science activities.)
- Technology "tools of the trade": renewable energy, Four Corners 4-H In-Service. Albuquerque, NM, May 1- 3, 2012.
- Getting set to lead SET: the Memorial Middle School Agricultural Extension and Education Center model, 2010 4-H Western Region Leaders Forum. Albuquerque, NM, March 11-14, 2010.

County Educational Programs

- Straw Rockets: Flight and Motion. West Las Vegas School District. Union Elementary School. San Miguel County. December 13-18, 2017. (Pilot-tested straw rocket curriculum for use at 4-H Home Ec School. 88 3rd-5th grade youth learned about the basics of rocket design, data analysis and hypothesis testing.)
- The 2017 Solar Eclipse: Who? What? When? Where? And How? West Las Vegas School District. Union Elementary School. San Miguel County. August 18, 2017. (Delivered STEM program at the request of WLVS school administration. 96 youth learned about and observed the solar eclipse phenomena.)
- The Science of Slime. West Las Vegas School District K-3+ Program. San Miguel County. July 20, 2017. (Delivered STEM program at the request of WLVS school administration. 41 youth learned about the science of slime.)
- Simple machines: a hands-on 4-H STEM program for students attending Quay County 4-H camp. Quay County 4-H. July 18, 2017. (Program delivered at request of county agent Brenda Bishop. 12 youth engaged by program.)
- Building solar cars and brushbots: a 4-H STEM programs for students attending Santa Rosa Middle School. April 2017. Guadalupe County. (Program delivered at request of county agent Leigh Ann Marez.)
- Building Solar Cars: a 4-H STEM program. March 2017. San Juan County Day Camp. (Program delivered at request of county agent Shelly Hathorn.)
- Brushbots. West Las Vegas School District. Union Elementary School. San Miguel County. December 14-15, 2016. (Pilot-tested enhanced brushbot curriculum for future NM 4-H science trunk. 24 students learned about the basics of circuits, motors, and robotics.)

- Brushbots: a hands-on youth STEM program. San Miguel County. Las Vegas City Schools K-3+ Program. (Delivered STEM program at the request of LVCS school administration.)
- Making slime and brushbots: a hands-on youth STEM program. June 2016. Santa Fe County 4-H Day Camp. (2-day program delivered at request of county agents Jacki Baca and Christina Turner.)
- Solar and electrical energy: a hands-on 4-H STEM program. June 2016. Sandoval County 4-H County Camp. (Program delivered at request of county agents Nicole Lujan and Steve Lucero.)
- Cupbots: a hands-on 4-H STEM program for students attending Santa Rosa Middle School. May 2016. Guadalupe County. (Program delivered at request of county agent Leigh Ann Marez.)
- Cupbots: a hands-on 4-H STEM program. April 2016. Sandoval County 4-H Day Camp. (Program delivered at request of county agents Nicole Lujan and Steve Lucero.)
- Fruit Tree Grafting. March 2016. Valencia County. Valencia High School. (Program delivered at request of county agent Newt McCarty.)
- A growing partnership: teaching and learning plant propagation techniques with clover bud aged youth. July 2015. San Miguel County. Las Vegas City Schools K-3+ Program. (Delivered plant propagation program at the request of LVCS school administration.)
- Life science: STEM programs for 4-H youth. June 2015. Santa Fe County 4-H Day Camp. (2-day program delivered at request of county agents Jacki Baca and Christina Turner.)
- 4-H National Youth Science Day. 2011-2012 & 2014-2016. San Miguel County. (Coordinated and delivered 4-H NYSD events held at MMSAEEC: 2011 Wired for Wind, 2012 Eco-Bot Challenge, 2014 Rockets to the Rescue, 2015 Motion Commotion, and 2016 Drone Discovery.)
- Circuits and Electricity. 2012 -2015. San Miguel County. (Collaboration with US Department of Education 21st Century program. Provided instruction, curriculum, and material support for programs at Memorial Middle School.)
- Using the School Greenhouse for Teaching Purposes. 2014. Valencia County. Valencia High School. (Met with FFA teacher at request of county agent, Newt McCarty, to generate teaching ideas on integrating greenhouse activities into school curriculum at the request of Valencia county agent Newt McCarty.)
- Integrating greenhouse activities into the classroom. January 2014. Rio Arriba County. Carinos Charter School. (Workshop provided at the request of Rio Arriba County program director Desaree Jiminez.)
- Renewable Energy. 2012. San Miguel County. (Program collaboration with New Mexico Mathematics, Engineering, Science Achievement, Inc. - NM MESA – and San Miguel County agent on solar energy and fuel cell energy.)
- 4-H Million Trees. April 2010. San Miguel County. (Program collaboration with San Miguel County agent on fruit tree grafting and Arbor Day planting.)
- Fruit tree grafting workshop. March 2010. San Miguel County. United World College. (Workshop for youth attending the United World College in Las Vegas, NM as part of broader San Miguel county educational collaboration.)

- Fruit tree grafting workshop. March 2010. Bernalillo County. East Mountain High School. (Workshop provided at the request of Bernalillo County program director Joran Viers as part of the Bernalillo County Open Space partnership with NMSU.)
- Fruit tree grafting workshop. March 2010. San Miguel County 4-H. (Collaboration with county agent Samantha Ortiz on 4-H Million Trees program.)

4-H Science Trunks

- Innovative Agricultural lighting technology. 2024. (The intended use for the science trunks is for 4-H school enrichment and special interest. Each trunk includes equipment for 30 youth, curriculum and activities.)
- Solar Car Trunk. 2018. (The intended use for the science trunks is for 4-H school enrichment and special interest. Each trunk includes solar cars for 20 youth, curriculum and activities.)
- Life Science Trunk. 2016. (The intended use for the science trunks is for 4-H school enrichment and special interest. Each trunk includes three microscopes, pre-prepared life science slides, curriculum and activities.)

4-H Extension publications

- 4-H STEM Idea Starter. 2023. (This project allows youth to explore any and all areas of STEM. Use this idea starter AND publication 400.SD-1 Self Determined Project Greentop as the starting place for your 4-H self-determined project.)

4-H On-line curriculum

- Fun Science Activities. 2015. Available at: <http://mmsaeec.nmsu.edu/4-h.html>. (The intended use for this curriculum is for 4-H school enrichment and special interest.)

TECHNICAL REPORTS AND CURRICULUM MATERIALS

- Dormody, T. J. & Skelton, P. 2019. Let's learn about weather and climate science. Retrieved from New Mexico State University College of Agricultural, Consumer and Environmental Sciences Weather and Climate Science website: <https://aces.nmsu.edu/weatherclimate>
- Flynn, R. and P. Skelton. 2008. Determining agricultural and horticultural applications of mechanically biologically treated compost from municipal green waste in San Miguel County, NM. A Report Prepared by the New Mexico State University Cooperative Extension Service for New Mexico Highlands University.
- Francis, C., T. Hansen, and P. Skelton (editors). 2005. Science-based organic farming 2005: Toward local and secure food systems. Center for Applied Rural Innovation. University of Nebraska, Lincoln. <http://www.nlc.state.ne.us/epubs/U2250/H110-2005.pdf>

GRADUATE COMMITTEE MEMBER

- Adebayo Adeoti. AXED 2025. "Enhancing Local food systems: Accessing the contribution of 4-H and FFA Programs on Local food systems in New Mexico."
- Raymond Tetteh. AXED 2024. "Assessing the Role of Communications for Sustainable Agriculture: A Case Study of Agricultural Extension Professionals in Kumasi, Ghana and New Mexico."
- Angela Prada. AXED (2023). "New Mexico 4-H Program Family Guide: How to Navigate the 4-H program – A Complete Overview and Roadmap to Success for Families"
- Gabe Dougherty. AXED (2022). In progress.
- Erica Valdez. AXED (2017). "A Qualitative Investigation of How Teachers in Small Programs Balance FFA Participation with Other Opportunities in the School."
- Aspen Achen. AXED (2014). "4-H Braiding 1 project."
- Myoko Pattelena. AXED (2013). "Understanding youth comprehension in the sciences."
- Amy Pint. AXED (2011). "Bullying: tools for teachers with bullies and bully-proofing your classroom"

MANUSCRIPT REFEREE

- Blinded manuscript review. 2021. Journal of Extension.
- USDA Forest Service Report. 2014. Agroforestry and Climate Change: Reducing Threats and Enhancing Resiliency in Agricultural Landscapes.
- American Association for Agricultural Education. 2012. National AAAE Research Conference.
- American Association for Agricultural Education. 2010. North Central Region Conference.
- American Society of Horticulture Science. 2007. HortTechnology.
- International Journal of Agroforestry. 2006. Agroforestry Systems.
- Soil and Water Conservation Society. 2005. Journal of Soil and Water Conservation.

PROFESSIONAL ORGANIZATIONS

- North American Colleges and Teachers of Agriculture
- American Association for Agricultural Education
- National Association of Extension 4-H Agents
- New Mexico Association of Extension 4-H Agents
- Gamma Sigma Delta
- New Mexico Extension Specialists Association