

Dr. Pamela N. Martinez

New Mexico State University
INNOVATIVE MEDIA RESEARCH & EXTENSION DEPARTMENT, LEARNING GAMES LAB
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Education

Doctorate of Education, Pepperdine University, 2017.
Major: Educational Learning Technologies
Supporting Areas of Emphasis: Organizational Leadership
Dissertation Title: Active games: an examination of user engagement to define design recommendations

Master of Arts, New Mexico State University, 2005.
Major: Curriculum & Instruction - Learning Technologies

Bachelor of Arts, New Mexico State University, 1996.
Major: Journalism & Mass Communications

Employment History

Academic - Post-Secondary

Assistant Professor, New Mexico State University - Innovative Media Research and Extension.
(September 1, 2017 - Present).

Professional

Assistant Director/Program Manager, New Mexico State University - Media Productions.
(November 1, 2003 - August 31, 2017).

Professional Memberships

National Association of Extension 4-H Youth Development Professionals. (September 2019 - Present).

North American Colleges and Teachers of Agriculture. (December 2017 - Present).

Higher Education Video Game Alliance. (November 2017 - Present).

Station Representative, NC1023: Engineering for Food Safety and Quality. (June 2017 - Present).

Station Representative, S1077: Enhancing Microbial Food Safety by Risk Analysis. (June 2017 - Present).

Association for Communications Excellence in Agriculture, Natural Resources, and Life and Human Sciences. (June 1998 - Present).

RESEARCH

Published Intellectual Contributions

Book Chapters

Martinez, P. N., Chamberlin, B. A. (2019). Night of the Living Debt. In Karen Schrier (Ed.), *Learning, Education & Games, Volume 3: 100 Games to Use in the Classroom & Beyond* (vol. 3, pp. 261-264). Pittsburgh, PA: ETC Press.

Refereed Journal Articles

Ulery, A. L., Muise, A., Carroll, K. C., Chamberlin, B. A., White, L. M., Martinez, P. N., Spears, L., Gleason, J. B. (2020). Impact of multimedia learning tools in agricultural science classes. *Natural Sciences Education*, 49:e20011(1).
<https://access.onlinelibrary.wiley.com/doi/abs/10.1002/nse2.20011>

Conference Proceedings

Martinez, P. N., Chamberlin, B. A. (in press). *Outbreak Squad: Students as Superheroes Fighting the Spread of Foodborne Illness* (ed., vol. 64). Rupert, Indiana: North American Colleges and Teachers of Agriculture: NACTA Journal.

Martinez, P. N., Chamberlin, B. A., Gleason, J. B. (in press). *Showcase by Learning Games Lab: Educational Ag Media to Enhance your Instruction* (ed., vol. 64). Rupert, Indiana: North American Colleges and Teachers of Agriculture: NACTA Journal.

Martinez, P. N., Chamberlin, B. A., Gleason, J. B., Muise, A. S., Ulery, A. L. (2018). *A Design Process for Multimedia Learning Tools* (1st ed., vol. 62, pp. 97). Rupert, ID / North American Colleges and Teachers of Agriculture: NACTA Journal.

Gleason, J. B., Chamberlin, B. A., Martinez, P. N., Sohn, E., Goldstein, R. R. (2018). *Teaching the Science of Nontraditional Water on Food Crops, with Animations & Interactive Media* (1st ed., vol. 62, pp. 95). Rupert, ID / North American College & Teachers of Agriculture: NACTA Journal.

Other

Chamberlin, B. A., Stanford, T. B., Martinez, P. N. (2019). *Creature Cave Interactive*.
mathsnacks.org

Chamberlin, B. A., Martinez, P. N., McCloskey, M., Zeng, N., Johnson, S., Bellows, L. (2019). *Jungle Gym*. <https://apps.apple.com/kg/app/jungle-gym-1/id1245786895>

Chamberlin, B. A., Martinez, P. N., McCloskey, M., Zeng, N., Johnson, S., Bellows, L. (2019). *Jungle Gym 2*. <https://apps.apple.com/kg/app/jungle-gym-1/id1245786895>

Chamberlin, B. A., Martinez, P. N., McCloskey, M., Zeng, N., Johnson, S., Bellows, L. (2019). *Spin-n-Move*. <https://apps.apple.com/kg/app/tasting-party-express/id1193380752>

Chamberlin, B. A., Martinez, P. N., McCloskey, M., Zeng, N., Johnson, S., Bellows, L. (2019). *Tasting Party Express*. <https://apps.apple.com/kg/app/tasting-party-express/id1193380752>

Chamberlin, B. A., Martinez, P. N., Pruden, A., Vallotten, A. (2019). *Anti-biotic Resistance: From Farm to Fork Animation*. <https://youtu.be/ob4NmLmhFTE>

Chamberlin, B. A., Stanford, T. B., Martinez, P. N. (2019). *Curse Reverse Game*. mathsnacks.org

Chamberlin, B. A., Martinez, P. N., Critzer, F. (2019). *Interactive Test Strip: Testing pH in Treated Water Systems*.

Chamberlin, B. A., Martinez, P. N., Gleason, J. B. (2019). *Outbreak Squad Game*. outbreaksquad.org

Chamberlin, B. A., Martinez, P. N., Critzer, F. (2019). *Pre-Harvest Water Treatment Animations*.

Chamberlin, B. A., Stanford, T. B., Martinez, P. N. (2019). *Agronautica Game*. mathsnacks.org

Gleason, J. B., Chamberlin, B. A., Martinez, P. N. (2018). *Fresh and Sometimes Dirty: Farmers Market Series*. freshanddirty.nmsu.edu

Gleason, J. B., Chamberlin, B. A., Martinez, P. N. (2018). *Potluck Panic*. potluckpanic.nmsu.edu

Martinez, P. N., Polin, L. (2017). *Active games: an examination of user engagement to define design recommendations*. Culver City, CA: Pepperdine University. pepperdine.worldcat.org/oclc/1010733432

Presentations Given

Martinez, P. N., Chamberlin, B. A., Muise, A. S., Consumer Food Safety Education Conference, "Surprising Successes in Reaching Consumers with Animations, Interactives and Video," Partnership for Food Safety, Virtual. (March 12, 2021).

Chamberlin, B. A., Martinez, P. N., Cezarotto, M., Muise, A. S., Consumer Food Safety Education Conference, "Designing the Next New Thing: What New Tools are Needed, and How Should They Be Used," Partnership for Food Safety, Virtual. (March 9, 2021).

Martinez, P. N., Chamberlin, B. A., National Association of Extension 4-H Agents Annual Conference, "Collaborative Grant Writing: Strategies for Success," NAE4-HA, Boise, Idaho (Online). (October 22, 2020).

Chamberlin, B. A., Martinez, P. N., National Association of Extension 4-H Agents Annual Conference, "Designing for Change: A Simple Model for Creating Effective Learning Tools," NAE4-HA, Boise, Idaho (Online). (October 20, 2020).

Cezarotto, M. (Presenter), Chamberlin, B. A., Martinez, P. N., Society for the Advancement of Chicanos/Hispanics and Native Americans in Science New Mexico State University Chapter (SACNAS), "Redesigning for Accessibility: Design decisions and compromises on the Math Snacks Suite of Games," NMSU, Online. (September 30, 2020).

Martinez, P. N. (Presenter), Chamberlin, B. A., Games for Change, "Outbreak Squad: Keeping your Community Safe," Games for Change, Virtual - New York City, NY. (July 16, 2020).

Martinez, P. N. (Presenter), Chamberlin, B. A., Dream Keepers Online presentation, "Educational Ag Media and Resources an Introduction to Careers in Technology," Indian Resources Development - NMSU, Virtual - Zoom. (June 26, 2020).

Martinez, P. N. (Presenter), Chamberlin, B. A. (Presenter), NACTA - 2020 Virtual Conference, "Outbreaks Squad: Students as Superheroes Fighting the Spread of Foodborne Illness," North American Colleges and Teachers of Agriculture, Virtual Conference - Covid 19. (June 16, 2020).

Martinez, P. N. (Presenter), Chamberlin, B. A. (Presenter), Gleason, J. B. (Other), NACTA - 2020 Virtual Conference, "Showcase by Learning Games Lab: Educational Ag Media to Enhance your Instruction," North American Colleges and Teachers of Agriculture, Virtual Conference - Covid 19. (June 16, 2020).

Martinez, P. N. (Presenter), Cooperative Extension Service In-Service, "Review Tools Developed by Innovative Media Research & Extension for County FCS Agents, and State Specialists," College of Agriculture, Consumer, and Environmental Sciences, Las Cruces, New Mexico. (January 16, 2020).

Martinez, P. N. (Presenter), Cooperative Extension Service In-Service, "Review Tools Developed by Innovative Media Research & Extension for County Agriculture Agents, 4-H Agents, and State Specialists," College of Agriculture, Consumer, and Environmental Sciences, Las Cruces, New Mexico. (January 15, 2020).

Martinez, P. N., Chamberlin, B. A. (Presenter), USDA 1023 - National Multi-state Engineering for Food Safety and Quality, "The Power of Innovative Media - Work from NMSU's Media Productions and Learning Games Lab," USDA - NMSU Hosted 2019 Meeting, Las Cruces, New Mexico. (October 21, 2019).

Martinez, P. N., Chamberlin, B. A. (Presenter), Gleason, J. B. (Presenter), Innovative Media Research and Extension Webinar, "Webinar Outreach: Innovative Media Research and Extension Showcase and Listening Session," Innovative Media Research and Extension Department, Zoom Online, hosted from Las Cruces, New Mexico. (October 7, 2019).

Martinez, P. N., NMSU AXED 100 - Careers in Communications, "The Power of Innovative Media - Work from NMSU's Media Productions and Learning Games Lab," NMSU AXED 100, Las Cruces, New Mexico. (September 26, 2019).

Gleason, J. B., Chamberlin, B. A., Martinez, P. N., Site Visit with Director, "Innovative Media Research and Extension," USDA National Institute of Food and Agriculture, Las Cruces. (July 5, 2019).

Martinez, P. N. (Presenter), Arrowhead Middle School Conference, "Hands of With iPads - Night of the Living Debt," Arrowhead New Mexico State University, Las Cruces, New Mexico. (April 3, 2019).

Martinez, P. N., Creative Media Technology Student Tour, "Overview of NMSU's Learning Games Lab," Learning Games Lab, Learning Games Lab - NMSU Campus. (March 2019).

Gleason, J. B. (Presenter), Martinez, P. N. (Panelist), Chamberlin, B. A. (Panelist), Consumer Food Safety Education Conference, "Making Real Change by Learning From Game Developers: The Transformational Design Model," Partnership for Food Safety Education, Orlando, Florida. (March 8, 2019).

Martinez, P. N. (Presenter), Gleason, J. B. (Presenter), Chamberlin, B. A. (Presenter), Consumer Food Safety Education Conference, "Reaching New Audiences Through Digital Media and Games," Partnership for Food Safety, Orlando, Florida. (March 8, 2019).

Chamberlin, B. A., Martinez, P. N., NC 1023 Annual Food Engineering Meeting, "Station Report and 2019 Las Cruces Hosting Event," Washington State University, Orono, Maine. (October 15, 2018).

Chamberlin, B. A., Martinez, P. N., NAE4-HA National Conference, "Designing Digital Learning Tools: Beyond "I Have an Idea for an App", " National Association of Extension 4-H Agents, Columbus, OH. (October 11, 2018).

Chamberlin, B. A., Martinez, P. N., NAE4-HA National Conference, "Apps, Games and Online Tools for 4-H Programs," National Association of Extension 4-H Agents, Columbus, OH. (October 9, 2018).

Gleason, J. B., Chamberlin, B. A., Martinez, P. N., Carroll, K. C., Ulery, A. L., Ganguli, A. C., Sallenave, R., WRRRI Water Conference, "Multimedia tools for water education, outreach, and citizen science," Las Cruces, NM. (August 2018).

Martinez, P. N. (Leader), Aguirre, A. (Presenter), Eiland, K.-M. (Presenter), Eshelman, F. (Presenter), Ag Media Summit - Everything Under the Sun, "Management and Software Show & Tell: Apps and More," Association for Communication Excellence, Scottsdale, Arizona. (August 7, 2018).

Gleason, J. B. (Presenter), Chamberlin, B. A. (Panelist), Smith Muise, A. (Panelist), Martinez, P. N. (Panelist), Ag Media Summit - Everything Under the Sun, "Media Production Placement & Distribution: What Three Years of Data Tell Us," Association for Communication Excellence, Scottsdale, Arizona. (August 7, 2018).

Chamberlin, B. A. (Panelist), Eshelman, F. (Moderator), Martinez, P. N. (Panelist), Aguirre, A. (Panelist), Eiland, K.-M. (Panelist), Ag Media Summit - Everything Under the Sun, "The Professional Field Trip: A Practical Approach to Professional Development," Association for Communication Excellence, Scottsdale, Arizona. (August 7, 2018).

Gleason, J. B. (Presenter), Martinez, P. N. (Presenter), Eiland, K.-M. (Presenter), Eshelman, F. (Presenter), Aguirre, A. (Presenter), Ag Media Summit - Everything Under the Sun, "Accessibility and Section 508 Compliance: Making our Online Tools, including Games and Interactive, Accessible," Association for Communication Excellence, Scottsdale, Arizona. (August 6, 2018).

Gleason, J. B. (Leader), Martinez, P. N. (Presenter), Ag Media Summit - Everything Under the Sun, "Getting the Money to Make the Cool Stuff," Association for Communication Excellence, Scottsdale, Arizona. (August 6, 2018).

Gleason, J. B. (Presenter), Chamberlin, B. A. (Panelist), Martinez, P. N. (Panelist), Eshelman, F. (Panelist), Aguirre, A. (Panelist), Eiland, K.-M. (Panelist), Ag Media Summit - Everything Under the Sun, "Science of Agriculture.org: Animations, Videos and Virtual Labs for the Ag Learner," Association for Communication Excellence, Scottsdale, Arizona. (August 6, 2018).

Martinez, P. N., Chamberlin, B. A., Gleason, J. B., Muise, A. S., Ulery, A. L., NACTA Conference, "A design process for multimedia learning tools," Ames, Iowa. (June 2018).

Gleason, J. B., Chamberlin, B. A., Martinez, P. N., 2018 NACTA Conference, "Teaching the Science of Nontraditional Water on Food Crops, with Animations and Interactive Media," North American College and Teachers of Agriculture Association, Ames, Iowa. (June 12, 2018).

Gleason, J. B. (Presenter), Martinez, P. N. (Presenter), NoroCORE Final Showcase Meeting, NoroCORE Grant Committee, Atlanta, GA. (March 21, 2018).

Gleason, J. B., Martinez, P. N., NC-1023 Annual Food Engineering Meeting, Washington State University, Pullman, Washington. (December 2017).

Martinez, P. N., S-1056 Annual Meeting Multi-State Project, S-1056 Enhancing Microbial Food Safety by Risk Analysis, Portland, Maine. (October 2017).

Contracts, Grants and Sponsored Research

Sponsored Research

Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "UNCLOG: UNiversal Crop LOGistics System for Sustainable Feed, Fiber and Feedstock Production," Sponsored by Ohio State University, Other, \$399,036.00. (April 1, 2022 - March 31, 2027).

Cezarotto, M. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Sustainable Production of Poultry Products with Improvement of Processing Efficiency, Food Safety, Product Quality, and Human Health," Sponsored by California Polytechnic State University, Other, \$749,990.00. (January 1, 2022 - December 30, 2026).

Cezarotto, M. (Co-Principal), Guzman, I. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Innovators from Marginalized Communities: Interactive Labs which Help Students See Themselves in Agricultural Careers," Sponsored by US Department of Agriculture/National Institute of Food and Agriculture NIFA (Formerly USDA CSREES), Other, \$274,989.00. (October 1, 2021 - September 30, 2025).

Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Engledowl, C. (Principal), "Math Snacks and Data Jams: Blending Two Successful Mathematics and Science Interventions into an Innovative Approach to Build Statistical Literacy," Sponsored by National Science Foundation, Other, \$3,000,000.00. (September 1, 2021 - September 30, 2025).

Gleason, J. B. (Co-Principal), Martinez, P. N. (Co-Principal), Chamberlin, B. A. (Principal), "An Integrated Approach for Enhancing Food Safety and Reducing Microbial Spoilage of Fresh Produce," Sponsored by University of California, Davis, Other, \$711,009.00. (May 1, 2020 - April 30, 2025).

Gleason, J. B. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Enhancement of Fresh Produce Safety via Interventions at Multiple Stages of the Supply Chain A9201," Sponsored by Ohio State University, Other, \$599,870.00. (May 1, 2020 - April 30, 2025).

Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Phillips, S. G. (Principal), "Enhancing Nutrition & Dietetics Education with Artificial Intelligence & Virtual Reality Simulations," Sponsored by Rutgers, Other, \$310,501.00. (January 1, 2022 - December 31, 2024).

Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "TRAIN: Targeted Resources Addressing Identified Needs in Worker Training and Food Safety Culture in Maryland through the Development and On-Farm Evaluation of a Mixed Media Toolkit," Sponsored by University of Maryland, Other, \$150,000.00. (September 30, 2021 - August 31, 2024).

Ganguli, A. C. (Co-Principal), Steele, C. M. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Flynn, R. P. (Co-Principal), Ulery, A. L. (Principal), "Pre-Proposal- Improving Arid Soils: collaborating with Producers to Develop a Research-Based Media and Education Campaign," Sponsored by USDA/NIFA/Western SARE (Sustainable AG RES & ED), Federal, \$350,000.00. (July 1, 2021 - June 30, 2024).

Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Bridging The Gap: Expanding A HACCP-Based Curriculum To Help Produce Growers Treat Agricultural Water," Sponsored

- by Washington State University, Other, \$60,001.00. (September 30, 2020 - September 29, 2023).
- Bittner, L. (Co-Principal), Martinez, P. N. (Co-Principal), Chamberlin, B. A. (Principal), "4-H STEM Pathways: Design Research on Moving Youth from Digital to Hands-On Engagement," Sponsored by National Science Foundation, Other, \$300,000.00. (August 1, 2021 - July 31, 2023).
- Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Development of Education Modules of Disease Transmission in Food and Agricultural Settings for Distance Learning," Sponsored by Drexel University, Other, \$250,000.00. (December 1, 2020 - November 30, 2022).
- Gleason, J. B. (Co-Principal), Martinez, P. N. (Co-Principal), Chamberlin, B. A. (Principal), "Development and Implementation of Innovative Food Safety Training Tools for the Production and Distribution of Microgreens," Sponsored by University of Arkansas, Other, \$124,992.00. (September 1, 2019 - August 31, 2022).
- Easterly, R. G., Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Bundy, C. S. (Principal), "Pinning Down Ag Literacy: Expanding Access to Insect Science," Sponsored by US Department of Agriculture/National Institute of Food and Agriculture NIFA (Formerly USDA CSREES), Other, \$199,895.00. (September 1, 2018 - August 31, 2022).
- Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "A feasibility study to develop a multilevel occupational health intervention program for nail salon employees and owners," Sponsored by Drexel University, Other, \$14,997.00. (July 1, 2020 - June 30, 2022).
- Pietrasiak, N. (Co-Principal), Chamberlin, B. A. (Co-Principal), Ulery, A. L. (Co-Principal), Martinez, P. N. (Principal), "Learning by Design: Agricultural Science Students as Creators of Learning Tools," Sponsored by USDA/NIFA/HSI, Federal, \$249,969.00. (August 1, 2020 - December 31, 2021).
- Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Infotoons and Videos as Delivery Tools for Food Safety Training," Sponsored by University of Maine, Other, \$40,000.00. (September 1, 2018 - August 31, 2021).
- Gleason, J. B. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Don't Wash My Chicken?! Developing Food Safety Education Messages to Address Consumer Barriers to Adopting Safe Food Handling Practices," Sponsored by Drexel University, Other, \$98,993.00. (July 15, 2019 - July 14, 2021).
- Martinez, P. N. (Co-Principal), Chamberlin, B. A. (Principal), "How did Rona steal my lunch?: Empowering K-14 teachers to provide whole-child Ag-STEM educational experiences at a distance.," Sponsored by North Carolina State University, Other, \$500,086.00. (December 1, 2020 - January 31, 2021).
- Beck, S. R., Martinez, P. N. (Co-Principal), Chamberlin, B. A. (Principal), "4-H STEM Pathways: Moving Learners from Digital Activities to Hands-On Engagement," Sponsored by National Science Foundation, Other, \$2,999,985.00. (August 1, 2020 - January 31, 2021).
- Gleason, J. B. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Using Online Learning Labs and Community Outreach to Develop Cottage Food Producers and Budding Entrepreneurs," Sponsored by North Dakota State University, Fargo, Other, \$220,734.00. (September 1, 2019 - January 31, 2021).
- Gleason, J. B. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Sustainability of plastic mulches in specialty crop systems: Can biodegradables reduce the

environmental footprint?," Sponsored by University of Tennessee - Knoxville, Other, \$408,928.00. (October 1, 2019 - January 31, 2021).

Hernandez Gifford, J. (Co-Principal), Ward, F. A. (Co-Principal), Martinez, P. N. (Co-Principal), Hodnett, F. E. (Co-Principal), Seevers, B. S. (Co-Principal), Gifford, C. A. (Principal), "Enhancing NMSU's Mark McCollum Congressional Fellowship and Extension Leadership Program," Sponsored by USDA/NIFA/ Agriculture and Food Research Initiative, Other, \$422,245.00. (September 2, 2020 - January 31, 2020).

Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Fernald, A. (Co-Principal), Ulery, A. L. (Principal), "Building Student Leadership Across Interdisciplinary Water Studies," Sponsored by USDA/NIFA/HSI, Federal, \$274,993.00. (October 1, 2019 - January 31, 2020).

Gleason, J. B. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Enhancement of Fresh Produce Safety via Interventions at Multiple Stages of the Supply Chain," Sponsored by Ohio State University, Other, \$408,928.00. (September 1, 2019 - January 31, 2020).

Martinez, P. (Co-Principal), Martinez, P. N. (Co-Principal), Chamberlin, B. A. (Principal), "Update for Night of the Living Debt," Sponsored by University of Idaho, Other, \$22,000.00. (September 1, 2017 - August 31, 2019).

Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Dubois, D. W. (Principal), "Pre-Proposal - Drought Resiliency Data Jam: Building Knowledge & Action in Border Classrooms & Communities," Sponsored by National Oceanic and Atmospheric Administration, Federal, \$500,000.00. (October 1, 2018 - January 31, 2019).

Idowu, O. J. (Co-Principal), Acharya, R. (Co-Principal), Bosland, P. (Co-Principal), Hanson, S. F. (Co-Principal), Fedio, W. M. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Sanogo, S. (Principal), "Multi-Barrier Management of Phytophthora Blight in Solanaceous and Cucurbitaceous Vegetable Crops," Sponsored by USDA/NIFA/Specialty Crop Research Initiative, Federal, \$1,999,585.00. (October 1, 2018 - January 31, 2019).

Martinez, P. N. (Co-Principal), Chamberlin, B. A. (Principal), "Enhancing Gene-based Care Among Those with Inherited Genes Elevating Cancer Risk (ENGAGER)," Sponsored by University of New Mexico Comprehensive Cancer Center, Other, \$141,816.00. (September 1, 2018 - January 31, 2019).

Gleason, J. B. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Principal), "Eating Healthy for a Healthy Baby (Comer por un bebé sano): Developing a support program for pregnant Hispanic women of Mexican origin in El Paso, Texas," Sponsored by University of Texas at El Paso, Other, \$30,003.00. (July 1, 2018 - January 31, 2019).

Martinez, P. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Gleason, J. B. (Principal), "Identifying barriers to Accepting the Don't Wash your Chicken! Message A1331," Sponsored by Drexel University, Other, \$99,993.00. (October 1, 2017 - January 31, 2019).

Martinez, P. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Gleason, J. B. (Principal), "4-H Fitness and Nutrition Clubs Go Outdoors! (4-H FANs GO!)," Sponsored by University of Connecticut, Other, \$160,000.00. (April 1, 2018 - January 31, 2019).

Martinez, P. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Gleason, J. B. (Principal), "Improvement of Chilling Efficiency, Meat Quality, and Safety of

Turkey Carcasses Using Sub-Zero Saline Imme," Sponsored by California Polytechnic State University, Other, \$250,016.00. (March 1, 2018 - January 31, 2019).

Gleason, J. B. (Co-Principal), Martinez, P. N. (Principal), "Identification and Management of Critical Control Points in the Spread of Antibiotic Resistance from Animal Manure to Raw Produce," Sponsored by Virginia Polytechnic Institute and State University, Other, \$13,500.00. (November 1, 2018 - January 7, 2019).

Martinez, P. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Gleason, J. B. (Principal), "Impacts of on-farm practices and off-farm landscape on antimicrobial resistance in produce farms," Sponsored by University of Florida, Other, \$75,000.00. (September 1, 2017 - December 31, 2017).

Martinez, P. (Co-Principal), Garzon, R. (Co-Principal), Mitchell, M. C. (Co-Principal), Valles-Rosales, D. J. (Co-Principal), Chamberlin, B. A. (Co-Principal), Martinez, P. N. (Co-Principal), Devall, E. L. (Co-Principal), Guzman, I. (Principal), "Engaging Underrepresented Minority Girls and their Mothers from the Borderlands in STEAM Experiential Education for Sustainable Agriculture," Sponsored by US Department of Agriculture/National Institute of Food and Agriculture NIFA (Formerly USDA CSREES), Other, \$99,965.00. (November 1, 2017 - December 31, 2017).

Intellectual Contributions in Submission

Journal Articles

Shearer, A., Hoover, D., Gleason, J. B., Chamberlin, B. A., Martinez, P. N., Klein, J., Riser, D., Buttram, J., Snider, S., Kniel, K. Development and Evaluation of Educational Web-based Food Safety Game, Potluck Panic!. *Journal of Microbiology & Biology Education*.

Research Currently in Progress

"Outbreak Squad Study Impact Measurements" (On-Going). (June 17, 2020 - Present).

This research study is for user testing and feedback for a publicly available online educational game "Outbreak Squad" and the use of that feedback for publications. Volunteers will take a short, online survey via Qualtrics a survey software giving feedback on usability and effectiveness of the food safety content. Data generated are recorded through Qualtrics survey software and shared with members of the research team. Findings from the online survey are used in publications and presentations.

"Online Programming with 4-H Audiences: Meeting the Eight Essential Elements of Youth Programming" (On-Going). (March 2020 - Present).

When COVID caused traditional youth programs to move online, focus shifted on how to retain the eight essential elements of youth development in a non-face to face environment. Researchers are reviewing each element, and providing specific examples of how each can be addressed in virtual learning.

"Accessibility in Game Design". (2020 - Present).

Reviewing processes in the design and production of games which increase accessibility by different audiences with ranges of cognitive, motor, visual or audio needs.

"User Testing Methodologies" (On-Going). (2003 - Present).

The Learning Games Lab engages in formative testing for a variety of digital products and with a variety of audiences. Ongoing research evaluates methodologies and documents processes on all research done in the lab, sharing new findings on processes for user testing in general, and specific outcomes for the ongoing development of new products.

SERVICE

College Service

Committee Member, Task Force: Alternative to Hands-on. (May 20, 2020 - July 1, 2020).

University Service

Station Representative, NC1023 Engineering for food safety and quality. (October 14, 2018 - Present).

Committee Member, Task Force: Alternative to Hands-on. (May 20, 2020 - July 1, 2020).

Guest Speaker, Arrowhead Center - Innoventure Jr. Career Day. (May 3, 2019).

Reviewer, Competitive Graduate Student Assistantships. (April 2, 2019).

Professional Service

Committee Member, NC1023: Engineering for Food Safety and Quality. (June 2017 - Present).

Committee Member, S1077: Enhancing Microbial Food Safety by Risk Analysis. (June 2017 - Present).

Reviewer, Conference Paper, Grace Hopper Convention, Las Cruces, New Mexico. (March 29, 2020 - April 6, 2020).

Conference Organizer, NC 1023 - Food Technology and Manufacturing, National Multistate Association. (October 20, 2019 - October 22, 2019).

Grant Proposal Reviewer, National Science Foundation, Las Cruces, New Mexico. (November 2018 - March 2019).

Reviewer, Book, International Game Developers Association - Learning, Education, and Games (SIG). (January 25, 2018 - March 1, 2018).

Reviewer, Conference Paper, Connected Learning Summit. (January 26, 2018 - February 9, 2018).

Public Service

Judge, Asombro Institute for Science Education - Desert Data Jam competition, Las Cruces, New Mexico. (April 25, 2018).

Awards and Honors

Service, Professional

WEDA Award of Excellence, The Western Extension Directors' Association. (July 2017).