

# Christopher Gambino

Assistant Professor  
Department of Animal Science  
Delaware Valley University  
700 E. Butler Ave. | Doylestown, PA | 18901

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## EDUCATION:

**Ph.D. – Animal Sciences\*** **2010 – 2015**

Washington State University

Title: *Reactive Nitrogen and Cattle Feedings Systems in the United States: Sources, Sinks, and Solutions*

**Graduate Certificate – Sustainable Agriculture** **2014**

Washington State University

**Master of Public Administration** **2020**

North Carolina State University

**B.S. – Biological Sciences, Concentration: Human Nutrition** **2005 – 2008**

North Carolina State University – *summa cum laude*

**\*Nitrogen Systems: Policy-oriented Integrated Research and Education (NSPIRE)**

A National Science Foundation Integrative Graduate Education and Research Traineeship

## PROFESSIONAL APPOINTMENTS:

**Assistant Professor** **2019 – Present**

Department of Animal Science – Delaware Valley University

**USDA AFRI Postdoctoral Fellow** **2019**

Genetic Engineering & Society Center – North Carolina State University

**Senior Natural Resource Analyst** **2018 – 2019**

Policy Analysis Group – University of Idaho

**Policy Process Research Fellow** **2017 – 2018**

North Carolina State University

**Breakthrough Generation Fellow** **2017**

The Breakthrough Institute (Oakland, CA)

**Teaching Assistant** **2013 – 2015**

Washington State University – Department of Animal Sciences

**AGree Fellow** **2012**

Meridian Institute (Washington, D.C.)

**Pasture-Based Dairy Production Apprentice** **2009 – 2010**

Center for Environmental Farming Systems (Goldsboro, NC)

## FUNDING

Awarded External		Awarded Internal	
As PI:	\$334,947	As PI:	\$8,206
As Co-PI:		As Co-PI:	
<b>Total:</b>	<b>\$334,947</b>		<b>\$8,206</b>

### External:

1. **Gambino, C.D.**, Richards, B., and Wright, M. (May 2021 – ). Amount: \$49,994. *Analyzing the Strengths, Weaknesses, Opportunities, and Threats of Animal Agriculture in the Commonwealth of Pennsylvania*. The Pennsylvania Center for Poultry & Livestock.
2. **Gambino, C.D.**, Brownawell, E., and McArthur, H. (December 2020 – ). Amount: \$65,723. *Pennsylvania Food Animal Processing Strategic Needs Assessment*. The Pennsylvania Center for Poultry & Livestock.
3. **Gambino, C.D.** (October 2020 – December 2020). Amount: \$3,000. *Developing Rodale Institute's Organic Transitions Livestock Module*. Rodale Institute.
4. **Gambino, C.D.**, Hines, E., and Falcone, L. (April 2020 – July 2021). Amount: \$51,230. *Understanding Motivations to Biosecurity Acceptance and Practice Among Pig Producers*. The Pennsylvania Center for Poultry & Livestock.
5. **Gambino, C.D.** (May 2019). Amount: \$165,000. *Toward Fostering Science-Based Decision Makers: Overcoming Conceptualization Barriers in Agricultural Sustainability*. USDA National Institute of Food and Agriculture.

### Internal:

1. Sweitzer, H. and **Gambino, C.D.** (August 2021 – December 2021). Amount: \$500. *The Effect of Cottonseed Hulls on Feeder Cattle Performance*. DVU Student Research.
2. Sleva, F., Carey, J., and **Gambino, C.D.** (August 2021 – December 2021). Amount: \$500. *Effects of Supplementing Phytase in Swine Diets*. DVU Student Research.
3. Jaslar, M. and **Gambino, C.D.** (April 2021 – August 2021). Amount: \$3,500. *Measuring Dietary Impacts on the Prevalence and Abundance of Intestinal Parasites in Goats*. Keler Summer Student Research Internship.
4. Turrell, H., Hinderliter, G., and **Gambino, C.D.** (April 2021 – August 2021). Amount: \$2,500. *Growing grain and establishing perennial pasture: increasing the integration between human and livestock feeds*. Ornsteen-James Endowed Research Scholarship.
5. Tooker, D. and **Gambino, C.D.** (August 2020 – December 2020). Amount: \$321. *Equine Biomass Palatability*. DVU Student Research.
6. Motis, E. and **Gambino, C.D.** (August 2019 – December 2019). Amount: \$515. *Optimizing Local Resources for Beef Production: Testing of Dietary Inclusion of Food By-Products on Rumen Physiology*. DVU Student Research.

7. Stoner, C. and **Gambino, C.D.** (August 2019 – December 2019). Amount: \$370. *Optimizing Local Resources for Beef Production: Effects of Forage Availability and Digestibility on Stocking Density*. DVU Student Research.

## SCHOLARSHIP

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### PUBLICATIONS:

1. Galik, C.S., **Gambino, C.D.**, and Latta, G. (2019). *Spillovers in Near-Term U.S. Forest and Agriculture Greenhouse Gas Mitigation Portfolios*. *Climate Policy*.

### PRESENTATIONS:

#### Invited Panelist

1. **Gambino, C.D.**, Brownawell, E., Hines, E., and Wieme, R. (February 2022). *Keeping pigs healthy: data-driven biosecurity assessment & solutions*. PASA 2022 Sustainable Agriculture Conference.
2. Bomgardner, M., **Gambino, C.D.**, Haan, M., Haney, C., and Johnson, C. (January 2021). *Organic Solutions: Livestock* (Panel Discussion). PASA 2021 Virtual Sustainable Agriculture Conference, Online.

#### Conference and Workshop Presentations

1. Brownawell, E. Hines, E., Falcone, L., and **Gambino, C.D.** (July 2021). *Understanding Biosecurity Perceptions in Pennsylvania Pig Producers*. ASAS Annual Meeting.
2. **Gambino, C.D.**, Brownawell, E., and Hines, E. (July 2021). *Swine Producer Identities: Understanding perceptions of a Good Producer*. ASAS Annual Meeting.
3. Kromer, R., and **Gambino, C.D.** (July 2021). *Growth Rates in Piglets After the Introduction of Spot Genetics*. ASAS Annual Meeting.
4. **Gambino, C.D.** (January 2021). *Quick Start to Ration Design Using Pearson Square & Modified Pearson Square Method*. PASA 2021 Virtual Sustainable Agriculture Conference, Online.
5. **Gambino, C.D.** (April 2020). *Grass, Grain & the Developing Rumen*. Dairy Grazing Apprenticeship Association and PASA Sustainable Agriculture Workshop, Online.
6. **Gambino, C.D.** *Rumen Development in Dairy Calves*. New/Aspiring Organic Dairy Workshop, Annville, PA. December 19<sup>th</sup>, 2019.
7. **Gambino, C.D.**, K. Trebitz, and J. Sampson. 2015. *Policy Network Analysis of Two United States Energy Sector Case Studies: The role of scientific knowledge as a network resource in policy development*. Paper presentation at The Western Political Science Association 2015 annual meeting. Las Vegas, Nevada.

8. **Gambino, C.D.**, N.C. Grecu, M. Thornton, and S.D. Stehr. 2014. *Scientific Knowledge in a Value-laden Public Policy-making Process: The COMMUNITY Framework for Consensus-Based Management of Wicked Problems*. Poster presentation at The American Geophysical Union Science Policy Conference. Washington, D.C.
9. Grecu, N.C. and **C.D. Gambino**, 2013. *Team Communication Barriers: The Complexities of Communication at the Intersection of Science, Policy, and Public(s)*. Presented at the Fourth Annual International Science of Team Science Conference. Northwestern University. Evanston, IL.
10. **Gambino, C.D.**, Allwine, G., Lamb, B.K., and Johnson, K.A., 2011. *Requirements for continuous ammonia-NH<sub>3</sub> sampling when using relaxed eddy accumulation from concentrated animal feeding operations*. Presented at American Society of Animal Science Conference. New Orleans, Louisiana.
11. Johnson, K.A. and **Gambino, C.D.** 2011. *Managing the environmental impact of pasture production systems*. Presented at American Society of Animal Science Conference. New Orleans, LA.
12. **Gambino, C.D.** 2010. *Bridging the gap between scientists and stakeholders*. Presented at Beefing up the Future Workshop. Washington State University. Pullman, WA.

#### **MEDIA INTERVIEWS:**

1. Interviewee. *America's agriculture challenge: Can we both invest in farms and protect the environment?* KYW News Radio InDepth. ([link](#)). November 26<sup>th</sup>, 2020.
2. Interviewee. Recognizing Biosecurity Risks. RFDTV Market Day Report. ([link](#)). w/ Elizabeth Brownawell '20. August 2020.

#### **HOSTED PODCASTS:**

1. New Books Network. Science, Technology, and Society. With Mock, S. on the book *Farm (and other F words): The rise and fall of the small family farm*. June, 23<sup>th</sup> 2020. ([link](#)).
2. New Books Network. Science, Technology, and Society. With Myers, S. on the book *Planetary Health: Protecting Nature to Protect Ourselves*. October, 30<sup>th</sup> 2020. ([link](#)).
3. New Books Network. Science, Technology, and Society. With Postel, S. on the book *Replenish: The virtuous cycle of water and prosperity*. July, 22<sup>nd</sup> 2020. ([link](#)).
4. New Books Network. Science, Technology, and Society. With Hilty, J. on the book *Corridor Ecology: Linking landscapes for biodiversity conservation and climate adaptation*. April, 20<sup>th</sup> 2020. ([link](#)).
5. New Books Network. Science, Technology, and Society. With Montgomery, D.R. on the book *Growing a Revolution: Bringing our soil back to life*. July, 26<sup>th</sup> 2019. ([link](#)).

6. New Books Network. Science, Technology, and Society. With Preston, C. on the book *The Synthetic Age: Outdesigning evolution, resurrecting species, and reengineering our world*. April 18<sup>th</sup>, 2019. ([link](#)).
7. New Books Network. Science, Technology, and Society. With Van Noy, R. on the book *Sudden Spring: Stories of adaptation in a climate-changed south*. March, 8<sup>th</sup> 2019. ([link](#)).

## TEACHING

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### COURSES TAUGHT:

Introduction to Animal Science (Lecture & Labs)	<b>Fall &amp; Spring 2019 - Present</b>
Organic Livestock Management & Handling (Lecture & Lab)	<b>Fall 2019, 2020</b>
Animal Feeding and Nutrition (Lecture & Lab)	<b>Spring 2020, 2021</b>
Livestock Industries and Careers (Lecture)	<b>Fall &amp; Spring 2020, 2021</b>
The Policy and Politics of Ag & the Environment (MPP Level Lecture)	<b>Spring 2020</b>
Scientists' Ethics and Policy	<b>Fall 2020</b>

### GUEST LECTURES:

1. Integrated Pest Management (PS-3240). *IPM for Ruminant Livestock*. April, 2021.
2. Dairy Business Analysis (DS-4240). *What is Government for? The policy process & farm-related policies*. March, 2021.
3. Conservation Synergy (SA-9990). *Conserving what*. April, 2021.
4. Feed Grains and Forages Lab (PS-2007). *Understanding Dry Matter & Calculating Sustainable Stocking Density*. October, 2020.
5. Conservation Synergy (SA-9990). *Discovering Ecomodernism*. March, 2020.
6. Natural Resource and Ecosystem Service Economics (NR-S383, The University of Idaho). *The science & practice of "Carbon Farming."* April, 2020.

### STUDENT MENTORING:

#### Graduate Students

Name	Role	Project	Degree	Major
Libby Brownawell	Chair	Organizing and Understanding Animal Agricultural Stakeholders	MA	Mgmt. & Org. Leadership
Ashley Velez	Chair	Monitoring the Water Quality of Devil's Pool and Cresheim Creek for Recreational Swim	MPP	Public Policy

Chris Handy	Member	Implementing Municipal Separate Storm Sewer Systems (Ms4) Regulation In Pennsylvania	MPP	Public Policy
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### Undergraduate Students

Name	Project	Major
Hunter Sweitzer	The Effect of Cottonseed Hulls on Feeder Cattle Performance	Animal Science
Faith Sleva	Effects of Supplementing Phytase in Swine Diets	Animal Science
Maddie Jaslar	Measuring Dietary Impacts on the Prevalence and Abundance of Intestinal Parasites in Goats	Dairy Science
Heather Turrell	Growing grain and establishing perennial pasture: increasing the integration between human and livestock feeds	Ag. Education
Danielle Tooker	Equine Biomass Palatability	Equine Studies
Elizabeth Motis	Testing of Dietary Inclusion of Food By-Products on Rumen Physiology	Animal Science
Caitlin Stoner	Effects of Forage Availability and Digestibility on Stocking Density	Animal Science

### SERVICE

#### INSTITUTIONAL SERVICE:

- Farm Land Use Faculty Advisory Committee
- Honors Committee
- Middle States Self-Study Team Standard V, Educational Effectiveness Assessment Committee
- Institutional Assessment Advisory Committee
- Food Systems Institute (FSI) Steering Committee
- Ornsteen-James Endowed Research Scholarship Committee

#### PROFESSIONAL SERVICE:

- American Society of Animal Science Council of Accreditation
- PennAg Swine Council – Swine Health Committee

#### AWARDS AND HONORS:

- 2019 USDA AFRI Postdoctoral Fellow
- 2014 James C. Nofzinger Fellowship in Animal Sciences, WSU College of Agricultural, Human, and Natural Resource Sciences
- 2013 Edward and Sally Veenhuizen Graduate Fellowship, WSU College of Agricultural, Human, and Natural Resource Sciences

- 2012 Burlington Northern Graduate Student Fellowship, Thomas S. Foley Institute for Public Policy and Public Service
- 2012 Zimbelman-Hafs Public Policy Internship, American Society of Animal Science
- 2011 M.E. Ensminger Scholarship, WSU College of Agricultural, Human, and Natural Resource Sciences
- 2011 Fred W. Frasier Memorial Scholarship, WSU College of Agricultural, Human, and Natural Resource Sciences
- 2008 All-Academic Wrestling Team, Atlantic Coast Conference (ACC)
- 2008 Top Ten Scholar-Athlete, North Carolina State University
- 2007 ACC Championship Wrestling Team, Atlantic Coast Conference (ACC)