

### Brandy E. Phipps, PhD

Assistant Professor

1400 Brush Row Road, Wilberforce, OH 45384

Central State University

(937) 376-6358 | bhipps@centralstate.edu

ORCID: 0000-0002-3363-2472

Brandy E. Phipps, Ph.D. is an Assistant Professor in the Department of Agricultural and Life Sciences and a researcher in the Food, Nutrition, and Health project of the Agriculture and Research Development Program at Central State University, an 1890 Land-Grant Institution. She earned her Ph.D. in Biomedical and Veterinary Sciences from Virginia Polytechnic Institute and State University and her M.S in Human Nutrition, Foods, and Exercise. Dr. Phipps' research work is focused on sustainable nutrition science, which is the intersection of food systems transformation, sustainability, and nutrition and health equity. She currently holds positions on federally funded hemp research projects totaling \$11.3 million, including as Co-Principal Investigator of a \$1.3 million contract with the U.S. Food and Drug Administration to evaluate the chemical constituents of smoked and vaped hemp products and as Project Director of a \$10 million USDA-NIFA Sustainable Agriculture Systems grant (SUSHI project) which investigates the use of hemp grain as a feed ingredient for aquaculture.

### Education and Training

<i>Institution</i>	<i>Area</i>	<i>Degree</i>	<i>Year</i>
University of Florida, Gainesville, FL	Nutrition Sciences	B.S.	1998
Virginia Polytechnic Institute and State University, Blacksburg, VA	Human Nutrition, Foods, and Exercise	M.S.	2000
Virginia Polytechnic Institute and State University, Blacksburg, VA	Biomedical and Veterinary Sciences	Ph.D.	2004

### Research and Professional Experience

<i>Years</i>	<i>Position</i>
2019 - present	Assistant Professor, Agricultural and Life Sciences, Central State University
2012 - 2022	Adjunct Professor, Health, Human, and Public Services, Clark State College
2004 – 2006	Assistant Professor, Science and Mathematics, Cedarville University

### Synergistic Activities

#### *Relevant Grant Activity*

- **Brandy E. Phipps** (PD/PI) et al. 09/01/2021 – 08/31/2026. USDA Awards # 2021-69012-35918. *Sustainable Aquaculture Production of High Omega-3-Containing-Fish Using a Novel Feed Additive (Hemp) - SUSHI*. \$10,000,000.00
- Alcinda Folck, Mary Kershaw, and **Brandy E. Phipps**. 04/15/2021 – 04/14/2024. USDA Award # 2021-38821-34660. *Growing Communities: Establishing incubator farms and farmer's markets to increase health and economic viability for socially disadvantaged populations*. \$249,999

## Biographical Sketch

- Craig Schluttenhofer and **Brandy E. Phipps**. 09/2020 - 09/2023. FDA Contract Number 75F40120C00141. *Characterization of Chemical Constituents from Smokable Hemp Flower and E-cigarette*. \$1,303,695.00

### ***Awards***

- Presidential Faculty Excellence Award for Teaching, Research, and Service; Central State University, 2022
- Faculty Excellence Award for Teaching, Research, and Service; Strategic Ohio Council of Higher Education (SOCHE), 2022
- Faculty Professional Excellence Award; Clark State College, 2016-2017
- Ford Foundation Dissertation Fellowship; National Academies of Science, Engineering and Medicine, 2003
- Ford Foundation Predoctoral Fellowship; National Academies of Science, Engineering, and Medicine; 2000-2003
- James Moran Thesis Award; Virginia Polytechnic Institute and State University, 1999-2000
- Minority Future Leaders' Award; University of Florida, 1998

### ***Relevant Professional Service***

- Review Board: *American Journal of Health Behavior*, 2020 - present
- Peer reviewer, *Nutrition*, American Society for Nutrition, 2020 - present
- Diversity, Equity and Inclusion Taskforce, American Society for Cell Biology, 2020 – 2021

### ***Undergraduate Student Advising/Mentorship***

- Number of undergraduate student researchers: 12
- Number of professional and graduate student advisees/mentees: 2

### ***Relevant Teaching (out of 25 unique courses)***

#### *Undergraduate Courses*

- Anatomy and Physiology I and II
- Basic Human Nutrition
- Biochemistry
- Global and Cultural Nutrition
- Nutrition and Disease
- Nutrition and Metabolism I and II
- Nutrition for Health and Exercise Through the Life Cycle
- Undergraduate Research in Biology

#### *Graduate Courses*

- Advanced Medical Biochemistry
- Graduate Research Seminar - Experimental Design
- Graduate Research Seminar – Proposal Preparation
- Topics in Immunology - Molecular Mechanism(s) of Signal Transduction in Cellular Immunity
- Veterinary Fundamentals of Nutrition

### ***Relevant Professional Presentations***

- **Phipps, B.E.** (2022, March 7). *Nutraceutical Properties of Hemp* [Invited Speaker]. Department of Biological Sciences, Wright State University.

- **Phipps, B.E.** (2022, February 17). *Hemp Research Update*. S1084 Hemp Meeting [Invited Speaker].
- **Phipps, B.E.**, Mozafarriani, D., Reinhardt, S., Stevenson, T.R., Bustos, D., Booker, C., & Cornyn, J. (2022, January 26). *Our Health, Our Planet, Our Future: The Urgent Need to Invest in Sustainable Nutrition Science* [Congressional Briefing: Invited Panelist].
- **Phipps B.E.**, Kowalkowski, B., Wescott, J., McFadden, B., Schluttenhofer, C., and Nedunuri, K. Study Protocol to Measure the Impact of a “Farm-to-Fork” Program on Food Security and Nutrition Outcomes in the Menominee Nation, *Current Developments in Nutrition*, Volume 6, Issue Supplement 1, June 2022, Page 1155, <https://doi.org/10.1093/cdn/nzac072.027>
- Barclay, L., **Phipps, B.E.**, Allen, N., McClimans, M., McCorriston, J. (2022, May 2-3). Building Equitable Partnerships Between Predominantly White Institutions (PWIs) and Historically Black Colleges and Universities (HBCUs) [Conference Presentation]. National Conference on Diversity, Race, and Learning, Columbus, OH, United States.
- **Phipps, B.E.** (2022, April 18-20). Sustainable Aquaculture Production of High Omega-3-Containing-Fish Using a Novel Feed Additive (Hemp) - SUSHI [Conference Presentation]. USDA NIFA Sustainable Agriculture Systems Project Directors Meeting, Kansas City, MO, United States.
- Holt, L. (undergraduate researcher), **Phipps, B.E.**, Schluttenhofer, C., & Li-Byarlay, H. (2022, April 2-6). Effect of Hemp Extract on Honeybee Colonies [Conference Presentation]. Association of Research Directors Conference, Atlanta, GA, United States.

### **Relevant Outreach Activities and Licenses**

- DEI-Aquaculture Community of Practice, June 2022 – present
- Clark County Local Food Council, Chairperson, 2017 – 2020
- Second Harvest Food Bank of Clark, Champaign, and Logan Counties, OH, Board Member & Officer, 2017- 2021
- Clark County Combine Health District Healthy Eating Task Force, 2017 – 2019
- 2018 Ohio Healthcare Diversity Summit - Invited Panel Member, April 2018
- Ohio Hemp Program Research License issued through the Ohio Department of Agriculture.
- Brown, E. (Host). (2022, May 20). Cannabis (No. 85) [Audio podcast episode]. In *The Sweaty Penguin*. Peril and Promise: a public media initiative of WNET Studios. <https://anchor.fm/thesweatypenguin/episodes/85--Cannabis-e1ipu8l/a-a7vaekt> [**Brandy E. Phipps** Expert Guest Interview]
- Donaldson, S. (2021, December 14). Central State researchers look to expand hemp, trout markets. *Farm and Dairy*. Retrieved January 10, 2022, from <https://www.farmanddairy.com/news/central-state-researchers-look-to-expand-hemp-trout-markets/696895.html>. [**Brandy E. Phipps** Interview]
- Penrod, E. (2021, November 19). Is hemp the fish oil alternative of the future? *Feed Strategy*. Retrieved December 8, 2021, from <https://www.feedstrategy.com/aquaculture/is-hemp-the-fish-oil-alternative-of-the-future/>. [**Brandy E. Phipps** Interview]
- Bennett, T. (2021, November 5). Q&A: How Feeding Hemp to Fish Could Help the Planet. *Hemp Grower*. Retrieved from <https://www.hempgrower.com/article/how-feeding-hemp-fish-save-planet-brandy-hipps-central-state-university-usda-grant/>. [**Brandy E. Phipps** Interview]

## Biographical Sketch

- Wilde, R (Host). (2021, October 5). Revisiting Hemp in the 21st Century. (No. 9) [Audio Podcast Episode]. In *Grounded Hope*. <https://www.groundedhope.org/episodes/episode-09> [Brandy E. Phipps Interview]
- Sell, J. (2021, Fall). The Exciting Truth About Hemp. HARVEST, Volume 8, Issue 4, 8–10. [Brandy E. Phipps Interview]
- **Phipps BE.** Introduction to Hemp Grain. Black Farmers Conference Tour, Central State University, September 10, 2021.
- **Phipps BE.** Introduction to Hemp Grain. Greene County Farmers Forum Tour, Central State University, August 23, 2021.
- Barry, Kevin (February 3, 2021). Ohio farmers still learning how best to grow, process, sell hemp a year into legal cultivation. Aired on Cleveland News Channel 5 Evening News 02/03/2021. <https://www.news5cleveland.com/news/local-news/ohio-farmers-still-learning-how-best-to-grow-process-sell-hemp-a-year-into-legal-cultivation> [Brandy E. Phipps Interview]
- **Phipps BE.** Nutrition and Health Implications of Hemp Metabolites and Grain. Central State University Hemp Field Day, October 6, 2020.
- **Phipps BE.** Nutrition and Health Implications of Hemp Metabolites and Grain. Black Farmers: More than 40 Acres and a Mule, Central State University, September 11, 2020.

### *Relevant Refereed Publications*

- **Brandy E. Phipps** and Craig Schluttenhofer. 2022. Perspectives of industrial hemp cultivation. *Industrial Hemp: Food and Nutraceutical Applications*. Ed. Milica Pojić and Brijesh Tiwari. Academic Press, an Imprint of Elsevier. <https://doi.org/10.1016/B978-0-323-90910-5.00002-6>
- **Brandy E. Cowing** and Korinn E. Saker. 2001. Polyunsaturated Fatty Acids and EGFR/MAPK Signaling in Mammary Cancer. *Journal of Nutrition*. 131:1125-1128. DOI: [10.1093/jn/131.4.1125](https://doi.org/10.1093/jn/131.4.1125)
- Barbara A. Davis and **Brandy E. Phipps**. 2000. Pyridoxal Supplementation Reduces Cell Proliferation and DNA Synthesis in Estrogen-Dependent and -Independent Mammary Carcinoma Cell Lines. *Nutrition and Cancer* 38(2):281-286. DOI: [10.1207/s15327914nc382\\_18](https://doi.org/10.1207/s15327914nc382_18)