

## Yevheniia Varyvoda

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| INSTITUTION AND LOCATION                                   | DEGREE                | Completion Date<br>MM/YYYY | FIELD OF STUDY                   |
|--|-----------------------|----------------------------|----------------------------------|
| V.N. Karazin Kharkiv National University, Kharkiv, Ukraine | MS                    | 06/2002                    | Geomorphology and Paleogeography |
| V.N. Karazin Kharkiv National University, Kharkiv, Ukraine | PhD                   | 06/2005                    | Environmental Geography          |
| The Arava Institute for Environmental Studies, Israel      | Postdoctoral training | 12/2016                    | Environmental Management         |

### A. Personal Statement

Yevheniia Varyvoda, Ph.D., has a background in environmental geography with expertise in climate-smart approaches for environmental and human health. Yevheniia Varyvoda co-authored reports for USAID on the identification of emerging technologies and innovations, sustainable practices to address climate-related challenges in food systems to decrease food loss and waste while improving diet and nutrition, in addition to boosting smallholder farmers' productivity and profitability. She also co-authored advisory documents for UNDP on the UNECE Protocol on Strategic Environmental Assessment capacity building in the Central and Eastern European Countries. Her research activity, professional teaching, and project implementation in environmental and public health research have been conducted in North America, Europe, Africa, and the Middle East.

Dr. Varyvoda's research interest is dedicated to exploring and promoting solutions that are context-based to provide food security and precision nutrition for all in such a way that human, animal, and environmental health are not compromised. Dr. Varyvoda's expertise is in the design of adaptation strategies that can guide policymakers, food system actors, and community leaders to formulate actionable solutions addressing climate-induced risks and closing the implementation gap in food and nutritional security.

### B. Positions and Employment:

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|----------|---|
| 2024 +   | Assistant Professor of Practice, Public Health, Department of Community, Environment and Policy, Mel and Enid Zuckerman College of Public Health, Human Rights Practice Program Faculty, The University of Arizona, USA |
| 2021-24  | Research Professional I, Department of Community, Environment and Policy, Mel and Enid Zuckerman College of Public Health, Human Rights Practice Program Faculty, The University of Arizona, USA                        |
| 2021-22: | Scientific Consultant/Independent Contractor, Nutrition Section, Department of Pediatrics, School of Medicine, University of Colorado, USA  |
| 2020-21: | Co-Principal Investigator, Business Drivers for Food Safety, Food Enterprise Solutions, USA   |
| 2010-17: | Associate Professor, National University of Civil Protection of Ukraine, Ukraine  |
| 2004-06: | Senior Lecturer, Kharkiv University of Humanities "People's Ukrainian Academy", Ukraine   |

#### Other Related Professional Experience

|            |  |
|------------|--|
| 2023– 2024 | Interim Program Director MS/PhD “Environmental Health Sciences”, Department of Community, Environment and Policy, Mel and Enid Zuckerman College of Public Health, Human Rights Practice Program Faculty, The University of Arizona, USA |
| 2011       | Visiting Associate Professor, The Main School of Fire Service, Poland  |
| 2005       | National Expert, Development of the national strategy on Strategic Environmental Assessment capacity building in Ukraine, Regional Environmental Centre  |
| 2004-06    | Leading national expert, Co-PI, “Country review: capacity building needs assessment for the implementation of the UN/ECE SEA Protocol”, “The national SEA capacity building manual”, UNDP  |
| 2003-04    | Scientific Director, The design of regional ecological network as a part of the Pan European Ecological Network’, V.N. Karazin Kharkiv National University, Ukraine  |

#### Memberships

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|------|--|
| 2021 | Member of Humanitarian Assistance Technical Support Faculty Network, The University of Arizona     |
| 2022 | Member of the Bridging Biodiversity and Conservation Science Initiative, The University of Arizona |

#### **C. Most Recent Publications**

- Varyvoda, Y. Conference of the Parties (COP) 28 Takeaways at the Intersection of Health, Climate, and Food, Nutrition Reviews, 2024; nuae083, <https://doi.org/10.1093/nutrit/nuae083>
- Varyvoda, Y.; Foerster, T.A.; Mikkola, J.; Mars, M.M. Promising Nature-Based Solutions to Support Climate Adaptation of Arizona’s Local Food Entrepreneurs and Optimize One Health. Sustainability 2024, 16, 3176. <https://doi.org/10.3390/su16083176>
- Varyvoda, Y., Reynolds, K., von Hippel F.A. (2023). The One Health Occupational Outlook. Proceedings of the 2nd International One Health Conference “Bridging the gap: from science to policy from policy to implementation”. Barcelona, Spain, October 19-20, 2023.
- Varyvoda, Y., & Taren, D. (2023). COP 27 insights to increase food-systems climate adaptation and resilience. Nutrition Reviews. <https://doi.org/10.1093/nutrit/nuad035>
- Varyvoda, Y., & Taren, D. (2022). Considering ecosystem services in food system resilience. International Journal of Environmental Research and Public Health, 19(6), 3652. <https://doi.org/10.3390/ijerph19063652>
- Varyvoda, Y., Akseer, N., Sadkovi, V., Carmona, R., Muramoto, M., Wazny, K., San Martin, T., & Taren, D. (2022). Public Health in Practice, 4, 100296. Ukraine’s most vulnerable need healthcare: priorities during the armed conflict. [doi: 10.1016/j.puhip.2022.100296](https://doi.org/10.1016/j.puhip.2022.100296)
- Taren, D., Varyvoda, Y., Long, J. Scoping Exercise Report: Post-Farmgate Food Processing, Food Packaging and Food Storage (2022). A report produced for Feed the Future Food Systems for Nutrition Innovation Lab, Tufts University, Boston. August 15, 2022
- Varyvoda Y, Taren D (2022). Advancing Food System Resilience by Pseudocereals Utilization. World Academy of Science, Engineering and Technology International Journal of Energy and Environmental Engineering 16(11):1. <https://publications.waset.org/abstracts/144413/advancing-food-system-resilience-by-pseudocereals-utilization>
- Varyvoda, Y., Cederstrom, T., Borberg, J., & Taren, D. (2021). Enabling Food Safety Entrepreneurship: Exploratory Case Studies from Nepal, Senegal, and Ethiopia. Frontiers. <https://doi.org/10.3389/fsufs.2021.742908>
- Taren, D. & Varyvoda, Y. Technical input from Lauretti-Bernhard, R. and Eason, J. (2021). Food Safety and Nutrition: Feedback from the Field. A report produced for Feed the Future Business Drivers for

Food Safety, funded by USAID, and implemented by Food Enterprise Solutions. Arlington, Virginia, USA. [https://pdf.usaid.gov/pdf\\_docs/PA00XV2K.pdf](https://pdf.usaid.gov/pdf_docs/PA00XV2K.pdf)

#### **D. Research Support**

- The Foundation for Food and Agriculture Research. Project “Science for Sustainable Agricultural Transitions Literature Review”. Role: Principal Investigator. 09/01/2024- 03/01/2025
- Arizona Department of Health Services. Project “Evaluation of Arizona Trauma Recovery Centers”. Role: Co-Investigator. 08/01/2024- 07/31/2029.
- The University of Arizona Health Sciences: One Health Initiative Pilot Grant. Project “Exploring the Climate Adaptation Potential of Nature-Based Solutions to Strengthen Food System Resilience and Benefiting One Health in Arizona”. Role: Principal Investigator. 04/01/2023-03/31/2024.
- The University of Arizona. Mel & Enid Zuckerman College of Public Health. Dean’s Strategic Initiative and Innovation Fund program. Project “The development of the E-training course “Digital Technologies for Public Health and Climate Communication”. Role: Principal Investigator. 01/13/2023 – 10/13/2023.
- USAID, Tufts University Nutrition Innovation Lab. Project “Conduct a scoping review on innovations related to post-farmgate food processing, packaging, and storage that can be scaled up in low and middle-income countries”. Role: Scientific consultant. 03/01/2022 – 09/30/2022.
- The University of Arizona, Arizona Institutes for Resilience – International Programs. A grant for a concept paper on Resilience Research for Development Challenges ‘Considering Ecosystem Services in Food System Resilience’. Role: Co-Principal Investigator. 06/01/2021 – 10/31/2021.
- USAID. Feed the Future. Food Enterprise Solutions (USA). Project “Conduct an exhaustive literature review and expert consultations on the dynamic interactions between human nutrition, food-borne pathogens, and food safety, especially to identify the key issues for nutritionally vulnerable populations within selected Feed the Future countries: Nepal, Senegal and Ethiopia”. Role: Co-Principal Investigator. 08/01/2020 – 08/01/2021.

#### **E. Recent Conferences**

- The United Nations Climate Change Conference (COP 28), Dubai, UAE, November 30 – December 12, 2023
- 2nd International One Health Conference “Bridging the gap: from science to policy from policy to implementation, Barcelona, Spain, October 19 – 20, 2023
- The United Nations Climate Change Conference (COP 27), Sharm El-Sheikh, Egypt, November 6– 18, 2022.

#### **F. Formal Courses Taught and Developed**

- Food System Preparedness for Global Emergency Risks, CPH/GHI 481/581
- Food in 2050 and Beyond: Climate Change and Global Health, CPH 432/532
- World's Food and Health, HPS 416/516

#### **G. Instructional Design**

- E-training course "Advancing Arizona's Food Systems Climate Adaptation through Nature-based Solutions" (Principal Investigator, The University of Arizona, 2024)
- E-training course “Digital Technologies for Public Health and Climate Communication” (Principal Investigator, The University of Arizona, 2023)
- E-training course "Food Systems Initiatives to Advance Health Equity" (Instructional Design, Western Region Public Health Training Center, The University of Arizona, 2022)

- E-training course "Advancing Food Safety for Public Health" (Instructional Design, Western Region Public Health Training Center, The University of Arizona, 2022)

#### **H. Mentorship**

- Internship preceptor, Master of Public Health, Internship topic "One Health Arizona Workforce Development", The University of Arizona (2023)
- Supervision of an MS student in the frame of the project "Digital Technologies for Public Health and Climate Communication" (2023)

#### **I. Professional Development**

- The Project Management for Researchers course taught by Anne Maglia, Vice Chancellor for Research & Innovation at the University of Massachusetts Lowell (October - November 2023), UA
- The General Education Quick Start Live-Online Course (October 2023), UA
- Participated in the research study by the Johns Hopkins Center for a Livable Future and the Bloomberg Center for Government Excellence. The study aimed to understand the landscape of food system resilience in jurisdictions across the United States and to evaluate the new resource "Food System Resilience: A Planning Guide for Local Governments" (August 2023)

#### **J. Journal/Reports Peer-Reviews**

- Peer-review of the report "The food system impacts: Hawaii's" for the Western Environmental Technical Assistance Center for Environmental Justice (March 2024)
- Peer-review of the research articles:  
 "Urban Planning Perspective on Food Resilience Assessment and Practice in the Zhengzhou Metropolitan Area, China" (Land, MDPI, 2024); "Minimizing Postharvest Food Losses: A Vital Strategy to Address Food Insecurity and Malnutrition in Developing Nations" (Discover Food, Springer Nature, 2024); "Resilience to COVID-19 and Climate Challenges in Sub-Saharan Africa's Agricultural Sector" (Discover Agriculture, Springer Nature, 2024); "Consumer attitudes and behaviors towards more sustainable diets: a scoping review" (Nutrition Reviews, Oxford Academic, 2023); "The elements of resilience in the food system and means to enhance the stability of the food supply in Finland" (Environmental Systems and Decisions, Springer Nature, 2023); "The impact watershed development and management practice on household food security; a comparative analysis" (Discover Food, Springer Nature, 2023); "Potential impact of climate change on mycotoxin production in Ethiopia: a review" (Discover Food, Springer Nature, 2023).

#### **K. Recent Outreach Activity**

- Good Food Forum + Expo. Exhibitor, presenting the E-learning training course: Nature-based solutions to support climate adaptation of Arizona's small-scale food producers. August 27, 2024.
- Catalyzing Climate Action: A Discussion in the wake of COP28. Panel Discussion. February 1, 2024, The University of Arizona.
- Sustainable Tucson. COP28: UA Delegates Report on Their Observations & Local Implications. Panel Discussion. January 9, 2024. <https://sustainabletucson.org/cop28-ua-delegates-report-on-their-observations-local-implications/>
- Inside Climate News. Could 'One Health' be the Optimal Approach for Human, Animal and Environmental Health? September 1, 2023. <https://insideclimatenews.org/news/01092023>