

## Marisa Manheim

309 Cooke Hall, North Campus, University at Buffalo, Buffalo, New York 14260-0001

Email: [mmanheim@buffalo.edu](mailto:mmanheim@buffalo.edu)

Website: <https://marisamanheim.com>

### EDUCATION

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**Ph.D., Sustainability**, Arizona State University, May 2024

Dissertation: Embodied and Enactive Cognition in Practice: Planning for the Direct Potable Reuse of Wastewater in Arizona. <https://hdl.handle.net/2286/R.2.N.191498>

Advisor: Dr. Dave White

**M.S., Human-Computer Interaction**, Carnegie Mellon University, Aug. 2003

**B.S., Psychology & Communication Design**, Carnegie Mellon University, May 2002

### RESEARCH INTERESTS

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Sustainability transformation, transitions management, public participation, governance, socio-technical systems, embodied and enactive cognition, risk perception, anticipation, experiential futures, wastewater reuse, soil pollution

### PROFESSIONAL APPOINTMENTS

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#### State University of New York (SUNY) at Buffalo

Jan. – May 2027                      Fellow, UB Humanities Institute

Jan. 2024 – present                Assistant Professor, Dept. of Environment & Sustainability

#### Arizona State University, Tempe, AZ

Aug. 2022 – May 2023            Graduate Student Assistant, Dr. Dave White, *Piper Trust Water Program*

Aug. 2021 – May 2022            Graduate Student Assistant, Dr. Dave White, *City of Phoenix Intergovernmental Agreement*

Aug. 2019 – Aug. 2021           Graduate Research Assistant, Dr. Christy Spackman, *School for the Future of Innovation in Society*

Aug. 2018 – May 2019            Fellow, Dr. Nancy Grimm, *Urban Resilience to Climate Extremes Sustainability Research Network*

#### Grow Pittsburgh, Pittsburgh, PA

2014 – 2018                        Director of Community Projects & Policy

2010 – 2014                        Community Garden Coordinator

### HONORS

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#### *Fellowships & Scholarships*

“Dancing with Lead: A Field Guide to Living (with) Soil (Pollution),” Fellowship, Humanities Institute, University at Buffalo. Awarded for: Spring semester 2027.

WateReuse Arizona 2022 Scholarship, Arizona Chapter of the WateReuse Association. \$2,500. July 2022.

Babbitt Center Dissertation Fellowship, Babbitt Center for Land and Water Policy at Lincoln Institute. \$10,000. May 2022.

### **PROFESSIONAL SERVICE**

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Member, Policy Committee, College of Arts and Sciences, University at Buffalo, Amherst, NY

Member, Undergraduate Committee, Department of Environment & Sustainability, University at Buffalo, Amherst, NY

Chair, Urban Agriculture Special Committee. (2017 – 2018). Institute of Politics, University of Pittsburgh, Pittsburgh, PA.

Member, Urban Agriculture Working Group. (2016 – 2018). Pennsylvania Department of Agriculture, Harrisburg, PA.

Co-Chair, Urban Agriculture Working Group. (2015 – 2018). Pittsburgh Food Policy Council, Pittsburgh, PA.

PA Representative, Seed Library Working Group. (2015 – 2016). American Association of Seed Control Officials.

Member, Adopt-A-Lot Community Committee. (2015 – 2016). City of Pittsburgh, Pittsburgh, PA.

Member, Urban Agriculture Zoning Committee. (2014 – 2015). City of Pittsburgh, Pittsburgh, PA.

### **AUTHORED GRANTS** TOTAL: \$1,857,210 (EXTERNAL: \$1,554,727; INTERNAL: \$302,483)

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“GroundSense: Mobilizing Data and Collaborative Design to Reduce Soil Lead Risk,” Center for Climate Change and Health Equity, University at Buffalo. \$40,000. August 2026. (Role: PI)

“GroundSense: A Community-Driven Platform for Identifying and Reducing Soil Lead Exposure,” Community Health Equity Research Institute, University at Buffalo. \$54,000. July 2026. (Role: PI)

Singapore Institute of Management Course Grant, Office of International Education, University at Buffalo. May 2026. \$500. (Role: PI)

“The Buffalo Food Justice Project: Advancing Soil Health, Climate Justice, and Youth Employment through Sustainable Urban Agriculture,” Community Impact Grant, New York State Department of Environmental Conservation. \$866,754. (Role: Project Personnel; PI: Massachusetts Avenue Project).

“GroundSense: Mobilizing Data and Collaborative Design to Reduce Soil Lead Risk,” UB LAUNCH, University at Buffalo. \$50,000. December 2025. (Role: PI).

“Safely Rooted: Engaging Immigrants in Soil Lead Screenings in Buffalo, NY,” Civic Engagement Research Fund, University at Buffalo. \$5,000. October 2025. (Role: PI).

“Delavan-Grider Soil Sampling for Lead,” Lead Safe Task Force Grant, Community Foundation of Greater Buffalo. \$7,500. April 2025. (Role: co-PI; PI: Lourdes Vera, University at Buffalo).

“Adventuring through the Advanced Water Purification Process: Designing immersive educational VR and web experiences to change public perceptions about what makes water drinkable,” Impact Water – Arizona, Arizona Water Innovation Initiative, Arizona State University. \$184,400. May 2024. (Role: co-PI; PI: Claire Laure, Arizona State University).

“Advancing equitable and circular water solutions through source separation,” Convergence Accelerator Track K Phase 1 (NSF 23-590), National Science Foundation. \$650,000. January 2024. (Role: co-PI; PI: Nancy Love, University of Michigan).

ASU Piper Trust Water Program Project Funding, Virginia G. Piper Charitable Trust. \$2,000. November 2022.

“Perceptions in Sustainability Transitions: Perceptions in sustainability transitions: planning for the potable reuse of wastewater in Arizona,” Decision, Risk and Management Sciences Doctoral Dissertation Improvement Grant, National Science Foundation. \$26,473. June 2022.

“Approaching the debate over water recycling through embodied co-production,” Experimental Humanities Collaborative Network. \$1,400. September 2021.

“Hydrologic: Making embodied knowledge actionable in water policy,” Changemaker Challenge Civic Engagement Grant, ASU Changemaker Central. \$1,350. February 2022.

“Water tasting at Canal Convergence,” Experimental Humanities Collaborative Network. \$1,000. September 2021.

“Exploring the Embodied Anticipatory Governance of Drinking Water,” Morrison Neely Charitable Foundation Food and Agriculture Sustainability Research Grant. \$3,778. May 2021.

“Embodied rationality: A methodology to co-produce embodied knowledge for drinking water governance using responsive environments,” ASU Earth System Science for the Anthropocene (ESSA) Summer Grad Grant. \$11,000. May 2021.

“The Influence of Expanding Urban Agriculture in South Phoenix on Resource Use,” Urban Resilience to Extremes Sustainability Research Network (UREx SRN) Summer Research Grant. \$5,833. May 2019.

#### ***Not Awarded***

“Integrating nutrient recovery, food sovereignty, and lead mitigation in urban gardens,” Renewable Natural Resources Foundation Pilot Research Grant. \$50,000. September 2025.

#### **PUBLICATIONS**

\* DENOTES STUDENT/MENTEE

#### ***Refereed Journals***

**Manheim, M.**, Smith, H.J., Love, N.G., Wechter, T. (2026). Fit to Transform: Strategic Conformity to Advance Urine Recycling. *Springer Sustainability*. (Under review).

**Manheim, M.**, Cavicchi, J., Schreiber, T., Fitzgerald, R., Smith, H.J.\* (2025). Crossing Streams: Merging Sanitation Justice and Ecological Sanitation through Female Urinals. *Heath & Place*, 95, 103516.

Spackman, C., **Manheim, M.**, & Barua, S. (2022). Tasting Water at Canal Convergence 2021: An Experiment in Embodied Remembering. *Gastronomica*, 22 (4): 54–70.  
<https://doi.org/10.1525/gfc.2022.22.4.54>

**Manheim, M.** & Spackman, S. (2022). Embodied rationality: a framework of human action in water infrastructure governance. *Current Opinion in Environmental Sustainability*, 56: 101170.  
<https://doi.org/10.1016/j.cosust.2022.101170>

Eaton, W. M., Burnham, M., ... **Manheim, M.**, ... & Rogers, A. (2022). Advancing the scholarship and practice of stakeholder engagement in working landscapes: a co-produced research agenda. *Socio-Ecological Practice Research*, 4: 283–304. <https://doi.org/10.1007/s42532-022-00132-8>

Eakin, H., Parajuli, J., Yogya, Y., Hernández, B. & **Manheim, M.** (2021). Entry points for addressing justice and politics in urban flood adaptation decision making. *Current Opinion in Environmental Sustainability*. 51: 1-6. <https://doi.org/10.1016/j.cosust.2021.01.001>

#### ***Non-Refereed Publications***

**Manheim, M.** & Spackman, S. (2026). Building Community Trust in Potable Reuse Through Public Water Tastings. *Journal of the American Water Works Association*, 118: 55-57.  
<https://doi.org/10.1002/awwa.70109>

#### ***Whitepapers***

**Manheim, Marisa.** (2024). Effective Public Engagement about Advanced Water Purification: Findings for Utilities. [White paper].

Eaton, W. M., Robertson, T., ... **Manheim, M.**, ... & Arbuckle, J. (2022). Advancing scholarship and practice of stakeholder engagement in working landscapes: 34 co-produced research opportunities. <https://doi.org/doi:10.26207/b8rt-5q47>

**Manheim, Marisa,** Jonathan Burgess, and Jennifer England. (2017). “Written Testimony for the PA DEP Environmental Justice Listening Tour,” Submitted to: PA Dept. of Environmental Protection, *Pittsburgh Food Policy Council*.

Van Es, Marlene and **Marisa Manheim.** (2017). “Submission of Public Comment to Pittsburgh Land Bank Board,” Submitted to: Pittsburgh Land Bank Board of Directors, *Pittsburgh Food Policy Council*.

**Manheim, Marisa** and Rachel Forlifer. (2016). “An Urban Growers Guide: Selling the Food You Grow in Pittsburgh,” *web publication*.

Jackson Clark Partners and **Marisa Manheim.** (2014). “Making it Easier to Grow Food in Our City: Strategic Priorities for Urban Agriculture Policy in Pittsburgh,” *Grow Pittsburgh*, Pittsburgh, PA.

### **Reports**

**Manheim, Marisa.** (2016). “Oasis Foods Farm & Fishery: A Feasibility Study,” completed for: *Bible Center Church*, Pittsburgh, PA.

**Manheim, Marisa.** (2014). “The Hilltop Urban Farm: A Feasibility Study of Repurposing the Former St. Clair Village Public Housing Site for Farming,” completed for: *Hilltop Alliance*, Pittsburgh, PA.

### **REFEREED CONFERENCES**

\* DENOTES STUDENT/MENTEE

#### **Panel / Workshop Convener**

Manheim, Marisa. (2025, August 18-21). “Feeling and Doing Sustainability Transformations: Embodiment in Research and Practice.” [Techniques workshop]. *Transformations Community / Earth Systems Governance Conference*, Johannesburg, South Africa. (Role: Session Organizer).

Manheim, Marisa. (2025, October 20-22). “Somatic Governance: Feeling Our Way Through Collective Climate Action.” [Conference presentation]. *National Sustainability Society Conference*, South Bend, IN. (Role: Session Organizer).

Manheim, Marisa, Christy Spackman, Susheera Pochiraju, Katie Vanyo and Kevin Linder. (2024, July 28-30). Does it Matter How My Reuse Water Tastes? A Workshop on DPR’s Aesthetic Quality & Public Perception. [Techniques workshop]. *Arizona WaterReuse Symposium*, Flagstaff, AZ. (Role: Session Organizer)

Manheim, Marisa. (2022, November 16-18). “Thinking with water: Material co-production in anticipatory governance.” [Techniques workshop]. *4th International Conference on Anticipation*, Tempe, AZ.

#### **Panel / Workshop Presenter**

Manheim, Marisa. (2025, November 21-22). “Reclaiming Urban Soils: Linking Food Security and Urine Recycling through Bionutrient Sovereignty.” [Conference presentation]. *Urban Soils Symposium, Urban Soil Institute*, New York City.

Manheim, Marisa and Hayley Joyell Smith.\* (2024, September 9-11). Preliminary Findings from Accelerating Source Separation for Equitable Transitions (ASSETs). [Conference presentation]. *National Sustainability Society Conference*, Seattle, WA.

Spackman, Christy and Marisa Manheim. (2023, November 15-19). “Can one undo abjection? Embodied rationality and the remaking of water expertise.” [Conference presentation]. *Annual meeting of the*

*American Anthropology Association/Canadian Anthropology Society*, Toronto, Canada.

Manheim, Marisa. (2023, July 24). “Actionable findings from research on potable reuse decision-making in Central Arizona.” [Conference presentation]. *Arizona WateReuse Symposium*, Flagstaff, AZ.

Manheim, Marisa and Christy Spackman. (2023, March 5-8). “See, Touch, & Taste: Offering Consumers Direct Experience with Direct Potable Reuse.” [Conference presentation]. *WateReuse Association Symposium*, Atlanta, GA.

Manheim, Marisa and Christy Spackman. (2022, December 7-10). “Re-experiencing Water.” [Techniques workshop]. *Annual meeting of the Society for the Social Studies of Science (4S)*, Making and Doing Exhibit, Cholula, Mexico.

Manheim, Marisa. (2022, November 16-18). “Anticipating public perceptions in sustainability transitions: Planning for the potable reuse of wastewater in Arizona.” [Conference presentation]. *4th International Conference on Anticipation*, Tempe, AZ.

Manheim, Marisa and Christy Spackman. (2021, April 12-14). “A new approach to tasting tap water.” [Conference presentation]. *Annual meeting of the Arizona Water Association*, Phoenix, AZ.

Manheim, Marisa and Christy Spackman. (2021, Oct. 6-9). “Tastings as performance in the anticipatory governance of potable wastewater reuse.” [Conference presentation]. *Annual meeting of the Society for the Social Studies of Science (4S)*, online.

Manheim, Marisa and Christy Spackman. (2021, Sept. 6-8). “Hydrologic: the embodied foundations of drinking water decision-making.” [Conference presentation]. *Delft International Conference on Sociohydrology*, online.

Manheim, Marisa and Christy Spackman. (2020, Aug. 18-21). “Hydrologic: the embodied rationality of hesitancy towards recycled wastewater beer.” [Conference presentation]. *4S + EASST conference*, online.

Manheim, Marisa and Christy Spackman. (2019, Nov. 16-17). “Is the ‘yuck’ response to turning #WasteWater into #DrinkingWater just a matter of #taste? How AZ utilities are building support for water reuse through #beer, and what these tastings may be leaving out.” [Twitter thread]. *Discard Studies Twitter Conference*.

Manheim, Marisa and Jon Burgess. (2017, April). “Urban Agriculture in Southwest PA Municipalities.” [Conference presentation]. *Allegheny County League of Municipalities Conference*, Seven Springs, PA.

Cahn, Amy Laura and Marisa Manheim. (2015, Feb.). “Legal Land Access for Urban Agriculture.” [Conference presentation]. *PA Association of Sustainable Agriculture Conference*, State College, PA.

Manheim, Marisa and Rayden Sorock. (2014, Aug.). “Assessing the Long-Term Sustainability of Community Gardens.” [Conference presentation]. *American Community Gardening Association Conference*, Chicago, IL.

## **INVITED TALKS**

\* DENOTES STUDENT/MENTEE

Manheim, Marisa and Leila Tufekci\*. (2026, April 18). Research Extensions 5: Urban Soil Lead. *Inaugural Regional Critical Ecologies Workshop*, University at Buffalo, Buffalo, NY.

Manheim, Marisa. (2026, March 10–11). “The possibilities and limits of sensing technologies for soil lead.” *These Toxic Times: UB Humanities Institute Annual Conference*, University at Buffalo, Buffalo, NY.

Manheim, Marisa. (2025, December 11). “Embodied Rationality and the Governance of Humanature Interconnections.” *Geology & Environmental Science Colloquium*, University of Pittsburgh, Pittsburgh, PA.

Manheim, Marisa. (2025, October 25). "Unearthing Risks: Community-Based Screening for Lead in Urban Soils." *Building a Lead-Safe and Healthy Future in Western New York*, Lead Safe Task Force, Buffalo, NY.

Manheim, Marisa, Julia Dorr\*, Hayley Joyell Smith\*, Tatiana Schreiber, Julia Cavicchi, and Jamina Shupack. (2024, November 12-14). "Exploring Design Principles for Equity & Justice in Urine Reclamation Interactive Session." [Techniques workshop]. *Rich Earth Summit*, Brattleboro, VT. (Role: Session Organizer)

Manheim, Marisa, Julia Dorr\*, Hayley Joyell Smith\*, Tatiana Schreiber, Julia Cavicchi, and Jamina Shupack. (2024, November 12-14). "Mobile Unit Brainstorm & Feedback Session." [Techniques workshop]. *Rich Earth Summit*, Brattleboro, VT.

Manheim, Marisa and Christy Spackman. (2024, July 30). "Water Taste Test." *WateReuse Arizona*, Flagstaff, AZ.

Manheim, Marisa. (2024, April 26). "Experiencing water differently, together." *FEMeeting Sister Labs*, Buffalo, NY.

Manheim, Marisa. (2023, July 28). "Experiential engagements to advance participation in direct potable reuse policy." *Phoenix Water*, online.

Manheim, Marisa. (2021, Nov. 5). "Hydrologic: inviting everyday expertise into water policy." *ASU Earth System Science for the Anthropocene (ESSA) Annual Symposium*, online.

Manheim, Marisa. (2020, Dec.). "A community land trust for urban agriculture land preservation in Pittsburgh, PA." *Arizona Community Land Trust*, online.

Manheim, Marisa. (2019, Sept.). "Adaptation strategies in South Phoenix urban agriculture." *Food for Thought Seminar Series*, Arizona State University, Tempe, AZ.

Manheim, Marisa. (2017, Aug.). "Community development with urban agriculture – release of model ordinance." *Sustainable Pittsburgh's Local Government Academy*, online.

Manheim, Marisa and Rayden Sorock. (2017, March). "The Nuts and Bolts of Community Gardening." *Blair County Urban Agriculture Summit*, Altoona, PA.

Manheim, Marisa and Maria Bowman. (2015, Oct.). "Increasing Health Through Gardening." *City of Pittsburgh in-service*, Pittsburgh, PA.

Manheim, Marisa and Maria Bowman. (2015, March). "Increasing Health Through Gardening." *University of Pittsburgh Medical Center in-service*, Pittsburgh, PA.

Manheim, Marisa. (2014, May). "Farm to Community: Community Gardening." *Women for A Healthy Environment conference*, Green Tree, PA.

Manheim, Marisa. (2013, Dec.). "A Snapshot of Urban Agriculture in Pittsburgh." *Urban Agriculture Symposium*, Pittsburgh, PA.

## **INVITED WORKSHOPS**

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"Critical Ecologies Workshop." (2026, April 17-19). Buffalo, NY.

"Inaugural Regional Critical Ecologies Workshop." (2024, April 5-7). Buffalo, NY.

"2023 Collaborative Governance Scholarship Retreat: Spanning the Boundaries of Research, Scholarship, and Pedagogy in Collaborative Governance." (2023, July 30-Aug. 2). Grand Teton National Park, WY.

"Advancing Scholarship and Practice of Stakeholder Engagement in Working Landscapes." (Oct. 2020-Nov. 2021). *Pennsylvania State University's Institutes of Energy and the Environment*, online.

“Virtual Sensing.” (2021, Jan. 22-25). *Massachusetts Institute of Technology Program on Science, Technology and Society*, online.

“Ways of Water.” (2020, Feb. 13-15). *Arizona State University School for the Future of Innovation in Society*, Tempe, AZ.

“Science Outside the Lab.” (2018, June). *Arizona State University Consortium for Science, Policy and Outcomes*, Washington, D.C.

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## **PUBLIC EXHIBITIONS**

“The Future Taste of Water.” (2023, Jan. 16). *Arizona MLK Celebration*, Arizona Dr. Martin Luther King Jr. Celebration Committee, Phoenix, AZ.

“The Arizona Water Blueprint and CuRVE Tool.” (2022, Dec. 14-16). *Annual Meeting of the Colorado River Water Users’ Association*, Las Vegas, NV.

Manheim, Marisa and Christy Spackman. (2022, Dec. 7-10). “Re-experiencing Water.” *Making & Doing Exhibition, 4S/ESOCITE 2022*, Cholula, Puebla, MX.

“The Future Taste of Water.” (2022, Nov. 19). *Emerge 2022: Eating at the Edges, A Festival of Food Futures*. Arizona State University, Mesa, AZ.

“The Future Taste of Water.” (2022, Nov. 4-6). *Canal Convergence: Water + Art + Light*. Scottsdale Arts, Scottsdale, AZ.

“Tasting Waters.” (2021, April 12-14). *Arizona Water Association*, Phoenix, AZ.

“Tasting Waters.” (2021, Nov. 4-6). *Canal Convergence: Water + Art + Light*. Scottsdale Arts, Scottsdale, AZ.

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## **PROFESSIONAL SERVICE**

### ***Peer Reviewer***

#### Grants

National Science Foundation, Division of Social and Economic Sciences

Science and Technology Studies, Panel Reviewer (2025)

Morgan State University, RCMI Pilot Research Grants (2026)

#### Manuscripts

*MethodsX*

### ***Professional Membership***

Society for Socio-Ecological Systems (SocSES)

National Sustainability Society (NSS)

Society for the Social Studies of Science (4S)

International Association for Society and Natural Resources (IASNR)

WaterReuse Association

## ***Community Service***

Break-out Facilitator. (2022, July). *Global Futures 22 Summit*. New York City.

Note-taker. (2022, Feb.). Water break-out, Southwest Chapter Public Engagement Workshop. Fifth *National Climate Assessment (NCA5)*. Online.

Note-taker. (2021). Public perception break-out. *WaterReuse Association Annual Conference*, online.

Working Group Co-lead. (October 2020 – November 2021). “Advancing Scholarship and Practice of Stakeholder Engagement in Working Landscapes.” Penn State University & online.

Panel Co-organizer. (2021, October 6-9). "Performativity and Pragmatics in Water Governance I & II". *Society for the Social Studies of Science*, online.

Co-organizer, (September 2019 – March 2020). “Food for Thought Seminar Series.” *Swette Center*, Arizona State University, Tempe, AZ.

## **SELECT MEDIA COVERAGE**

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Brodie, Mark. “Recycled wastewater could solve dwindling water supplies. This expert wants to remove 'ick' factor.” (2025, May 2). *The Show*. <https://www.kjzz.org/the-show/2025-05-02/recycled-wastewater-could-solve-dwindling-water-supplies-this-expert-wants-to-remove-ick-factor>

Gorey, Jon. “Challenging Social Norms Around Drinking Water.” (2025, February 26). *Land Lines Magazine*. <https://www.lincolnst.edu/publications/land-lines-magazine/articles/fellows-in-focus-marisa-manheim/>

Hausler, Jackie. “First-year students work to create North Campus field guide.” (2025, January 13). *UBNow*. <https://www.buffalo.edu/ubnow/stories/2025/01/field-guide.html>

Hausler, Jackie. “Research team investigates source separation of wastewater with NSF grant.” (2024, March 15). *UBNow*. <https://www.buffalo.edu/ubnow/stories/2024/03/manheim-wastewater.html>

“A New Model of Agricultural Land Protection: Three Rivers Agricultural Land Initiative (TRALI).” (2022, April). *Arizona Community Land Trust website and newsletter*. <https://www.arizonacommunitylandtrust.org/a-new-model-of-agricultural-land-protection/>

Tropiano, Dolores. “2023 Emerge festival focused on future of food.” (2022, Nov. 22). *ASU News*. <https://news.asu.edu/20221122-creativity-food-thought>

“From drones to water tastings to sonic art, ASU creatives take part in 2021 Canal Convergence.” (2021, Dec. 14). *ASU News*. <https://news.asu.edu/20211214-water-art-light-asu-2021-canal-convergence>

McCart, Melissa. “Mapping hunger: Where are Pittsburgh’s food deserts?” (2017, May 19). *Pittsburgh Post-Gazette*. <https://newsinteractive.post-gazette.com/food-deserts/>

## **STUDENT CAREER ADVANCEMENT**

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Doctoral Committees, Expected:

Chair, Ebubechukwu H. Umeobi, Evolution, Ecology and Behavior – Sustainability Track

Member, Leila Tufekci, Sociology, Dept. of Sociology & Criminology

Master’s Committees:

Chair, Tabitha Wechter, Sustainability Leadership

Chair, Julia Dorr, Sustainability Leadership