

CURRICULUM VITAE

HONG WU, PH.D.

ASSOCIATE PROFESSOR

DEPARTMENT OF LANDSCAPE ARCHITECTURE

THE PENNSYLVANIA STATE UNIVERSITY

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MAR. 2024

APPOINTMENTS

DEPARTMENT OF LANDSCAPE ARCHITECTURE, PENN STATE

2022-present	Associate Professor
2019-present	Director of Penn State Stormwater Living Lab
2019-2022	Assistant Professor
2016-2019	Stuckeman Career Development Assistant Professor in Design
2015-2016	Postdoctoral Scholar

EDUCATION

University of Oregon	Ph.D. in Landscape Architecture	2014
Tsinghua University, China	Master in Landscape Architecture	2007
Tsinghua University, China	Bachelor of Architecture	2005

PROFESSIONAL EXPERIENCE

Principal	Urban People Space Landscape Design Studio, Beijing	2015-2019
Consultant	Beijing Tsinghua Urban Planning and Design Institute	2009-2019
	Urban People Space Landscape Design Studio, Beijing	2011-2015
	Herrera Environmental Consultants	2015-2016

RESEARCH/TEACHING SPECIALIZATION

Watershed planning and management, green stormwater infrastructure, urban river restoration, landscape performance, urban sustainability, landscape planning and design in China

AWARDS

Council of Educators in Landscape Architecture (CELA)	Excellence in Research and/or Creative Works	2023
American Society of Landscape Architects (ASLA) Professional Awards, Analysis and Planning Category	Honor Award	2012
The 8th International Federation of Landscape Architecture Asian Pacific Region (IFLA APR) Award, Landscape	Presidential Award	2011

Design Category

Torsanlorenzo International Prize in Section A - Landscape Design in Transformation of the Territory **Second Prize**

2009

STUDENT ADVISEE AWARDS

1. Adib, M. (2024). *Sustainability Graduate Student Fellow*, Penn State College of Arts and Architecture (Wu as Ph.D. Dissertation Committee Chair)
2. Wang, R. (2023). "Public Perceptions, Ecosystem Benefits, and Sustainability: Green Stormwater Infrastructure Development in Chinese Sponge cities," *Penn State Alumni Association Dissertation Award*. (Ph.D. Dissertation Committee Chair)
3. Stewart, G. (2023). *Creative Achievement Award*, Penn State College of Arts & Architecture. (Undergraduate Honors Thesis Adviser)
4. Adib, M. (2022). "Environmental education for stormwater stewardship," *Penn State Stuckeman Alma Heinz and August Louis Pohland Graduate Fellowship*. (Ph.D. Dissertation Committee Chair)
5. Tebyanian, N. (2022). "Uncertainty Considerations in Green Infrastructure Optimization: A Review," *JoDLA 2022 Scientific Excellence Award*. (Ph.D. Dissertation Committee Co-chair)
6. Tebyanian, N. (2020). "Application of Machine Learning for Urban Landscape Design: A Primer for Landscape Architects." *JoDLA 2020 Scientific Merit Award*. (Ph.D. Dissertation Committee Co-chair)
7. Silveira, C. (2019). "A Systemic Approach for Integrative Design of Buildings and Landscapes: Towards Ecosystem Services Provision in Urban Areas." *Honorable Mention, Architectural Research Centers Consortium (ARCC) Dissertation Awards*. (Ph.D. Dissertation Committee Member)
8. Wang, R. (2019). "Evaluating the Public Perception and the Social Benefits of Green Infrastructure based on Chinese Sponge City Development," *Penn State Stuckeman Alma Heinz and August Louis Pohland Graduate Fellowship*. (Ph.D. Dissertation Committee Chair)
9. Zhou, T. (2018). "Newport on the Levee 2.0', Ohio River City Flooding and Waterfront Redesign Study." ASLA PA-DE Chapter Student Analysis and Planning Category Merit Award. (Undergraduate Honors Thesis Reader)

EXTERNAL GRANTS/FELLOWSHIPS/CONTRACTS

(Total awarded: \$7,218,699; Wu's share: \$555,250)

EXTERNAL GRANTS

1. Kirchhoff, C., **Wu, H. (Co-PI)**, Yench, A., Fetter, J., McPhillips, L., Grant, "A comprehensive assessment of the barriers and drivers of GSI adoption centered on ordinances in small and small to medium-sized municipalities in Pennsylvania," Pennsylvania Sea Grant. 2023-2024. Total: \$160,127; Wu: \$38,275.
2. Zaitchik, B., Hunter, J., Welty, C., Davis, K., Ricciuto, D., Ling, J., ..., **Wu, H. (Co-Investigator)**, "The Baltimore Social-Environmental Collaborative IFL," U.S. Department of Energy. 2022-2027. (Grant # DE-SC0023290). Total: \$24,511,753. Penn State total: \$6,371,823; Wu: \$436,707.
3. McPhillips, L., Brent, D., Clark, S. E., Gotsch, S., Hoffman, M., **Wu, H. (Co-PI)**. "Ecosystem services assessment for green stormwater infrastructure in Lancaster, PA." Pennsylvania Sea

Grant. 2022–2023. Total awarded: \$120,000; Wu: \$18,000.

4. McPhillips, L., Clark, S. E., Hoffman, M., **Wu, H. (Co-PI)**. “Impacts of salt loading on nutrient and metal processing in stormwater bioretention,” Chesapeake Bay Trust. 2021–2023. Total awarded: \$196,183; Wu: \$29,428.
5. Smithwick, E. A. H., K. Y. Zipp, M. W. Kaye, A. Taylor, P. B. Newman, & **Wu, H. (Co-PI)**. “Firescapes in the mid-Atlantic: mismatches between social perceptions and prescribed fire use”. USDI Joint Fire Sciences Program. 2016-2019. Total awarded: \$327,726; Wu: \$15,000.
6. **Wu, H. (PI)**. “LAF Case Study Investigation Program”. Landscape Architecture Foundation. 2017, \$7,840.

FELLOWSHIP

1. Yang, Y., **Wu, H. (Co-PI)**, Li, D., Hu, J. “Urban Greenspace Planning for Healthy Cities: A City-level Study of Urban Greenspaces and Health in Chinese Cities,” Lincoln Institute of Land Policy’s China Program Annual International Fellowship 2022-23. Total awarded: \$35,000; Wu: \$10,000.

INTERNAL GRANTS

(Total awarded: \$562,554; PI: \$325,444)

1. **Wu, H. (PI)**, Rosas, C. E., Azari, R. “Healthy Interactive K-12 Educational Environments for the Pandemic Times and Beyond,” College of Arts and Architecture Sustainability Research Team Grant, Penn State. 2021–2022, \$5,000.
2. **Wu, H. (PI)**, Flohr, T. L., & Yencha, A. “A Web App for Enhancing Knowledge Transfer and Science Communication in Community Engagement during Pandemic Time and Beyond”. Hamer Center for Community Design, College of Arts and Architecture, Penn State. 2021-2022, \$10,000.
3. **Wu, H. (PI)**, L. McPhillips, O. Mina, D. Brent, M. Hoffman, S. E. Clark, C. A. Cole, A. D. Gutberlet, T. Richard, M. Hoskins, J. Fetter, & D. A. S. Hoag. “Greening our stormwater: using campuses as living labs for green stormwater infrastructure”. University Strategic Initiatives, Penn State. 2019-2023, \$249,883.
4. **Wu, H. (PI)**, O. Mina, L. McPhillips, D. Brent, & C. A. Cole. “Improving Green Stormwater Infrastructure Performance and Cost-effectiveness on Penn State’s University Park Campus”. Penn State Office of Physical Plant. 2019-2023, \$33,665.
5. **Wu, H. (PI)** & O. Mina. “Multi-variate Evaluation of Green Stormwater Infrastructure on Penn State University Campus”. Ecology + Design annual research grant, Penn State. 2018–2019, \$14,000.
6. **Wu, H. (PI)** & B. Yang. “Understanding Societal Impacts of the Case Study Investigation Program: Perspectives from Professionals”. Ecology + Design annual research grant, Penn State. 2019–2020, \$5,396.
7. **Wu, H. (PI)**. “Exploring Maintenance-friendly Design for Green Stormwater Infrastructure in Pennsylvania”. College of Arts and Architecture Faculty Research Grant, Penn State. 2017–2019, \$7,500.
8. Cibir, R., An, R., Fetter, J., McPhillips, L., **Wu, H. (Co-PI)**, “Citizen science-driven data collection of Pennsylvania urban stormwater best management practices augmented by machine learning,” Penn State Institutes of Energy and the Environment. 2023-2024, \$30,000.
9. Kukal, M., Irmak, S., Davis, K. J., McPhillips, L., Clark, S. E., **Wu, H. (Co-PI)**. “Urban green infrastructure and the day-night “humid-heat islands” of the Northeast U.S.,” Penn State Institutes

of Energy and the Environment. 2022-2023, \$30,000.

10. Flohr, T. L., Richardson, L., Hoffman, M., **Wu, H. (Co-PI)**, Lindemann, J., Heris, M. "Connecting policies to actions for creating just, biodiverse, and climate-resilient urban forests," Penn State Institutes of Energy and the Environment. 2022-2023, \$30,000.
11. Hoffman, M., McPhillips, L., **Wu, H. (Co-PI)**, Skvarla, M. "Green Stormwater Infrastructure: Design, Maintenance and Location Impacts on Biodiversity," Mainstreaming Biodiversity in a Decade of Action Seed Grant, Sustainability Institute, Penn State. 2021-2022, \$9,910.
12. Clark, S. E., Mysliwiec, T. H., Felker, J. M., Blaszcak-Boxe, C., McPhillips, L., **Wu, H. (Co-PI)**, Driscoll, W. W., Moazeni, F., Spear, J. M. "Water quality assessment of an urban watershed in Lancaster, PA: implications for environmental justice," Penn State Institutes of Energy and the Environment. 2021-2022, \$30,000.
13. McGraw, E., A. Rosinger, **Wu H. (Co-PI)**, & L. McPhillips. "Healthy Houses, Healthy Communities: Improving Water Management to Enhance Health Outcomes and Global Security," Center for Security Research and Education, Penn State. 2019-2020, \$15,000.
14. Flohr, T., D. Miller, **Wu H. (Co-PI)**, & N. Tebyanian. "Developing a computational planting design and decision-making tool for assessing and predicting pollinator habitat resilience". The Stuckeman Center for Design Computing Interdisciplinary Faculty Research Grant, Penn State. 2018-2020, \$13,200.
15. McPhillips, L., D. Brent, A. K. Chaudhary, S. E. Clark, J. M. Duncan, R. Cibin, **Wu, H. (Co-PI)**, & M. Royer. "Identifying sweet spots for green stormwater infrastructure interventions in Pennsylvania urban communities," Institutes of Energy and the Environment, Penn State. 2019-2020, \$50,000.
16. Bose, M., **Wu, H. (Co-PI)**, & B. Abhinandan. "Hydrological Corridors and Urban Decisions - A Study of Eastern Canals in Calcutta as Social-Ecological Systems (SES)". Ecology + Design annual research grant, Penn State. 2018-2019, \$14,000.
17. Chaudhary, A. K., C. Raj, J. M. Duncan, M. Royer, C. Grady, S. Echols, **Wu, H. (Co-PI)**, K. Curry, & J. Fetter. "Urban Stormwater Management Initiative". College of Agricultural Sciences, Environment and Natural Resources Institute Centers of Excellence Grant, Penn State. 2018-2019, \$15,000.

PUBLICATIONS

B – Book Chapters; J - Peer-reviewed Journal Articles; P – Proceeding Articles; R - Reports; T – Translation; E - Editorial

** Corresponding Author; † Student Advisee*

AHCI – Arts & Humanities Citation Index; SCI – Science Citation Index; SCIE – Science Citation Index Expanded; SSCI – Social Sciences Citation Index; IF – Impact Factor

UNDER REVIEW

1. [J] Wang, X., Wang, R., Lyn, X., & **Wu, H.*** Using public perceptions to inform urban protected area buffer zone planning. *Environmental management. (SCIE, 2022 IF=3.5)*.
2. [J] Zhu, X., & **Wu, H.** An evaluation model for Quality of Rural Life (QRL) relating to spatial factors of villages in mountain areas. *Journal of Urban Planning and Development*.

REVISE TO RESUBMIT

1. [J] Cao, Y., Gong, C., & **Wu, H.** Walking accessibility of mountainous city parks based on improved

two-step floating catchment area (2SFCA) method: A case study of Yuzhong District, Chongqing. *Journal of Chinese Urban Forestry*.

- [J] Wang, R.†, **Wu, H.***, Chiles, R. M., & Yang, Y. Sustainability Outcomes and Policy Implications: Evaluating China's "old urban neighborhood renewal" experiment. *Plos ONE*

2024

- [J] Flohr, T., Garcia, L., Figueiredo, C., Heris, M., Hoffman, M., Lindemann, J., **Wu, H.**, & Richardson, L. (2024). Exploring a Just and Diverse Urban Forests' Capacity for Mitigating Future Mean Radiant Temperatures. *Journal of Digital Landscape Architecture*, 10–2024.
- [P] Hendricks, L., Hoffman, M., Wang, R., & **Wu, H.*** (2024). Bioretention Planting for Pollutant Removal. *Landscape Research Record* 12.
- [P] Pu, B., Li, Y., **Wu, H.**, & Xu, X. (2024). Selecting Appropriate Acoustic Indices for Biodiversity Assessments in Different Acoustic Environments. *Landscape Research Record* 12.

2023

- [E] Henderson, R., & Wu, H. (2023). Special issue on Chinese gardens and landscapes. *Studies in the History of Gardens & Designed Landscapes*, 43(4), 251–253.
- [J] Wang, X., **Wu, H.***, Gorenflo, L. J., & Wu, C. (2023). Exploring 1800 Years of Ecosystem Services from West Lake, Hangzhou, China. *Studies in the History of Gardens and Designed Landscapes*, 43(4), 279–297. (AHCI, 2022 5-yr IF=0.2)
- [J] Hoffman, M., Berghage, R., & **Wu, H.** (2023). Comparing Vegetation and Substrate Performances on Nutrient Removal and Biomass Establishment in a Natural Swimming Pool Experiment. *HortTechnology*. (SCI, 2021 IF=1.387)
- [J] Rummeler, L.†, Voogt, W., Kuggas, U., & **Wu, H.*** (2023). Green Stormwater Infrastructure Design for Climate Change: Lessons from Northern Europe (in English and Chinese). *Landscape Architecture (风景园林)*, 30(9): 45-64.
- [P] Fischer, C., Adhikari, B., McPhillips, L., **Wu, H.**, Gotsch, S., & Clark, S. (2023). De-icing salt transport from the street through a roadside bioretention basin. *Novatech 2023*.
- [R] Yang, Y., Wu, H., Li, D., & Hu, J. (2023). Understanding the Direct and Indirect Health Effects of Urban Greenspaces: A green infrastructure approach to healthy behavior and outcome. Working Paper, Lincoln Institute of Land Policy.
- [J] Yavari, R., **Wu, H.**, Grady, C., Brent, D., Clark, S., Raj, C., Duncan, J., Chaudhary, A. K. McPhillips, L. (2023). Identifying sweet spots for green stormwater infrastructure implementation: a case study in Lancaster, Pennsylvania. *Journal of Sustainable Water in the Built Environment*, 9(3), 05023004. (ESCI, 2022 IF=1.87)
- [J] Tebyanian, N.†, Fischbach, J., Lempert, R., Knopman, D., **Wu, H.**, Iulo, L. D., & Keller, K. (2023). Rhodium-SWMM: An Open-Source Tool for Green Infrastructure Placement Under Deep Uncertainty. *Environmental Modeling and Software*, 163, 105671. (SCI, 2021 IF=5.471).
- [J] Adib, M.†, **Wu, H.***, & Flohr, T. L. (2023). Professional perceptions of participatory practices in green stormwater infrastructure development. *PLOS Water*, 2(3), e0000084.
- [B] McPhillips, L., **Wu, H.**, Lerer, S., Rojas, C., Rosenzweig, B., Sauer, J., & Winfrey, B. (2023). Nature-Based Solutions as Critical Urban Infrastructure for Water Resilience. In McPhearson T., Frantzeskaki N., & Kabisch N. (Eds.), *A Modern Guide to Nature-based Solutions for Cities*. Edgar Elgar Publishing: Northampton, MA, USA.

2022

1. [J] **Wu, H.**, Miller, Z., Wang, R.†, Zipp, K. Y., Newman, P. B., Shr, Y.-H., Dems, C., Taylor, A. H., Kaye, M. W., & Smithwick, E. A. H. Public and manager perceptions about prescribed fire in the Mid-Atlantic, United States. *Journal of Environmental Management*, 322, 116100. (SCI, 2021 IF=6.789)
2. [J] Wang, R.†, Brent, D., & **Wu, H.*** Willingness to Pay for Ecosystem Benefits of Green Stormwater Infrastructure in Chinese Sponge Cities. *Journal of Cleaner Production*, 371, 133462. (SCIE, 2021 IF = 11.072).
3. [B] **Wu, H.** “Philadelphia, Pennsylvania.” (2022). In Newman, G., & Qiao, Z. (Eds.), *Landscape Architecture for Mitigating Sea Level Rise: Innovative Global Solutions*, 80–89. New York: Routledge.
4. [J] Tebyanian, N.†, **Wu, H.**, lulo, L. D., & Keller, K. (2022). Uncertainty Considerations in Green Infrastructure Optimization: A Review. *Journal of Digital Landscape Architecture (JoDLA)*, 2022(7), 549-560. (**2022 JoDLA Scientific Excellence Award**)
5. [J] Gong, C., **Wu, H.***, & Hu, C. Integration of Gray-Green Stormwater Infrastructure Planning and Urban Design — Lessons from the “Green First Plan” of the Mountainous City of Pittsburgh, USA. (2022). *Chinese Landscape Architecture*, 38(05), 62-67. (*Top 1st landscape academic journal in China*).
6. [J] Gong, C., **Wu, H.***, & Hu, C. (2022). Ecological Function Optimization Strategy of Urban Public Open Space based on Green Infrastructure Network: A Case Study of Central Nanjing. *New Architecture*, 1, 49-55.
7. [J] Zhang, Y.†, Tamminga, K., & **Wu, H.** (2022). Interweaving Computational and Tacit Knowledges to Design Nature-based Play Networks in Underserved Communities. *Land*, 11(3), 350. (SSCI, 2021 IF=3.905).
8. [R] Myerov, S. & **Wu, H.** (2022). The COVID-19 Pandemic’s Impact on Pennsylvania’s MS4 Communities - Preliminary Survey Findings. Pennsylvania Environmental Council and Penn State Stormwater Living Lab.
9. [J] Wang, R.†, **Wu, H.***, & Chiles, R. M. (2022). Ecosystem benefits provision of green stormwater infrastructure in Chinese sponge cities. *Environmental Management*, 69, 558–575. (SCIE, 2021 IF=3.924).

2021

1. [J] Wu, M.†, **Wu, H.***, Warner, A. T., Li, H., & Liu, Z. (2021). Informing Environmental Flow Planning through Landscape Evolution Modeling in Heavily Modified Urban Rivers in China. *Water*, 13(22), 3244. (SCIE, 2021 IF=3.530).
2. [J] **Wu, H.**, Yang, Y., & Hu, J. (2021). Nurturing nature in a mega-city: a decadal assessment of the Beijing Olympic Forest Park. *Socio-Ecological Practice Research*, 3(2), 91–108. (**2021 Editor’s Choice**).
3. [J] Xu, X., & **Wu, H.*** (2021). Audio-visual Interactions Enhance Soundscape Perception in China’s Protected Areas. *Urban Forestry & Urban Greening*, 61, 127090. (SSCI, 2021 IF=5.766).
4. [J] Xu, X., **Wu, H.***, & Feng, J. (2021). Research on Audio-visual Perception in Protected Areas based on Experiments and Grounded Theory: A Case Study of Wulingyuan World Natural Heritage Site. *Landscape Architecture (风景园林)*, 28(8):119-124. (*Top 2nd landscape academic journal in China*)

- [P] Bera, A.†, & **Wu, H.** (2021). The Dichotomy of Development and Water Management Surrounding the East Calcutta Wetlands since the British-colonial Era. Proceedings of the ConCave Ph.D. Symposium: Divergence in Architectural Research. Atlanta, GA: School of Architecture, Georgia Institute of Technology.

2020

- [J] Wu, M.†, Liu, Z., Li, H., & **Wu, H.*** (2020). Urban River Ecological Restoration from the Landscape Hydrology Perspective - Case Study of the Los Angeles River Revitalization. *Landscape Architecture (风景园林)*, 27(8): 35-41.
- [J] Miller, Z., **Wu, H.**, Zipp, K. Y., Dems, C. L., Smithwick, E. A. H., Kaye, M. W., Newman, P. B., Zhao, A., & Taylor, A. H. (2020). Hunter and Non-hunter Perceptions of Costs, Benefits, and Likelihood of Outcomes of Prescribed Fire in the Mid-Atlantic. *Society & Natural Resources*, 33(10), 1321–1327. (SSCI, 2021 IF=3.024)
- [P] Flohr, T. L., **Wu, H.**, & Tebyanian, N.† (2020). A Web App for Urban Pollinator Site Assessment. *Landscape Research Record* No. 9: 177-191.
- [J] Adib, M.†, & **Wu, H.** (2020). Fostering Community-engaged Green Stormwater Infrastructure (GSI) through the Use of Participatory Geographic Information System (PGIS). *Journal of Digital Landscape Architecture*, 5-2020: 549-557.
- [J] West, C., & **Wu, H.*** (2020). The Next Green Revolution: Rebuilding Urban Abundance through Plant Community-Based Design (in English and Chinese). *Landscape Architecture (风景园林)*, 27(4): 8-24.
- [J] Wang, X., Gorenflo, L. J., **Wu, H.**, & Wu, C. (2020). Evolution Mechanism of Social-Ecological System Based on Cultural and Political Ecology: A Case Study of Hangzhou and West Lake. *Landscape Architecture (风景园林)*, 27(1): 77-82.
- [R] Smithwick, E. A. H., Kaye, M. W., Taylor, A. H., Newman, P. B., **Wu, H.**, & Zipp, K. Y. (2020) Final Report. Firescapes in the mid-Atlantic: mismatches between social perceptions and prescribed fire use. USDI Joint Fire Sciences Program.

2019

- [J] **Wu, H.***, & B. Johnson (2019). Climate Change Will Both Exacerbate and Attenuate Urbanization Impacts on Streamflow Regimes in the Willamette Valley, Oregon. *River Research and Applications* 35: 818-832. (SCI, 2021 IF=2.780).
- [P] **Wu, H.** (2019). “Advancing Landscape Performance Evaluation: One Project at a Time.” Ecology + Design Symposium: ecology + design strategies to solve complex problems. College of Arts and Architecture, Penn State University, University Park, PA, USA.

2017

- [R] **Wu, H.** & C. Silveira† (2017). “Yanxiu Park.” Landscape Performance Series. Landscape Architecture Foundation. <https://doi.org/10.31353/cs1310>
- [R] **Wu, H.** & C. Silveira† (2017). “Huludao-Xingcheng Coastal Trail.” Landscape Performance Series. Landscape Architecture Foundation. <https://doi.org/10.31353/cs1300>
- [R] **Wu, H.** & C. Silveira† (2017). “TAXI II.” Landscape Performance Series. Landscape Architecture Foundation. <https://doi.org/10.31353/cs1290>

2013-2015

1. [J] **Wu, H.***, J. Bolte, D. Hulse, & B. Johnson (2015). A Scenario-Based Approach to Integrating Flow-Ecology Research with Watershed Development Planning. *Landscape and Urban Planning*, 144: 74-89. (**Cover story**, *SCI*, 2021 *IF*=8.119).
2. [T] Maul Foster Alongi (2013). "Think big – Zidell cleanup." Translated into Chinese by Zhao, N., **H. Wu**, & D. Wei. Portland, OR, USA.

ORAL PRESENTATIONS/WORKSHOPS/POSTERS

(All peer-reviewed unless noted otherwise)

2023

1. Hadjimichael, A., Bader, M., Hobbs, B., Nicholas, R., **Wu, H.**, & Zaitchik, B. (2023). "Identifying equitable adaptation pathways at scale: the Baltimore Social-Environmental Collaborative," *2023 Annual Meeting of the Society for Decision Making under Deep Uncertainty: Transformative Recovery and Forging Anew*, Delft, The Netherlands. International.
2. Tebyanian, N., Fischbach, J., Lempert, R., Knopman, D., **Wu, H.**, Iulo, L. D., & Keller, K. (2023). "Spatial Decision Making Under Deep Uncertainty (Spatial DMDU): Two Case Studies," *2023 Annual Meeting of the Society for Decision Making under Deep Uncertainty: Transformative Recovery and Forging Anew*, Delft, The Netherlands. International.
3. Adib, M.†, & **Wu, H.** (2023). "Environmental Education for Stormwater Stewardship," *2023 NAAEE Annual Conference or Research Symposium*, Virtual. International.
4. Fischer, C.†, Adhikari, B.†, McPhillips, L., **Wu, H.**, Gotsch, S., & Clark, S. (2023). De-icing salt transport from the street through a roadside bioretention basin. *Novatech 2023*, Lyon, France. International.
5. Wang, X., Wang, R.† & **Wu, H.** (2023). "Informing buffer zone planning for urban protected areas through public perceptions: a case study of the Shugang-Slender West Lake Scenic and Historic Area, Yangzhou, China," *CELA 2023 Annual Conference, San Antonio, TX*. International.
6. **Wu, H.**, Hoffman, M., & Kelley, K. (2023). "Public Perceptions of Perceived and Actual Value of Ecosystem Benefits of Bioswales," *CELA 2023 Annual Conference, San Antonio, TX*. International.
7. Adib, M.†, & **Wu, H.** "Evaluating public education modules for green stormwater infrastructure development," *CELA 2023 Annual Conference, San Antonio, TX*. International.
8. **Wu, H.**, Hendricks, L.†, Hoffman, M., & Wang, R.† (2023). "Bioretention planting for multiple ecosystem benefits," *CELA 2023 Annual Conference, San Antonio, TX*. International.

POSTERS

9. Flohr, T. L., Garcia, L., **Wu, H.**, Adib, M.†, Lindemann, J., Hoffman, M., & Richardson, L. (2023). "Simulating Future Urban Forest Scenarios Impact on Mitigating Mean Radiant Temperature," Penn State Stuckeman School Research Symposium & Open House.
10. Iulo, L. D., **Wu, H.**, Azari, R., Adib, M.†, Tariq, T.†, & Kj, A. (2023). "The Baltimore Social-Environmental Collaborative (BSEC)," Penn State Stuckeman School Research Symposium & Open House.
11. Pu, B.†, Xu, X. & **Wu, H.** "Study on the mechanism of acoustic difference based on acoustic index," *CELA 2023 Annual Conference, San Antonio, TX*. International.

2022

1. Tebyanian, N.†, Fischbach, J., Lempert, R., Knopman, D., **Wu, H.**, Iulo, L. D., & Keller, K. (2022). "Rhodium-SWMM: An Open-Source Tool for Green Infrastructure Placement Under Deep Uncertainty," *2022 Annual Meeting of the Society for Decision Making under Deep Uncertainty (DMDU): Transformative Recovery and Forging Anew*. International.
2. Yavari, R., McPhillips, L. E., Brent, D., Chaudhary, A. K., Clark, S., Duncan, J., Raj, C., Royer, M., **Wu H.**, & Grady, C. (2022). "Determination of Suitable Locations for Implementation of Green Stormwater Infrastructures in Lancaster City, PA," *Pennsylvania Stormwater Management Symposium*, Villanova University. Regional.
3. **[Invited workshop]** Sullivan, M., Henkin, N., Turack, J., Wulfhorst, P., Falcone, L., Fogle, N., Nandy, S.†, & **Wu, H.** (2022). Intergenerational Placemaking & Placekeeping. *Intergenerational Approaches for Living, Learning, and Growing in Pennsylvania*. Regional.
4. **[Invited workshop]** **Wu, H.**, McPhillips, L. Clark, S.E., Park-Martinez, J., & Hoskins, M. (2022). "A Multi-Discipline Living Lab Approach to Stormwater Adaptation," *Penn State Commonwealth Campuses Sustainability Forum (Harrisburg): Town-Gown Collaborations for a Resilient Pennsylvania*. Regional.
5. **[Invited]** **Wu, H.** (2022). "A Multi-Disciplinary Living Lab Approach to Green Infrastructure Research, Education, and Outreach," *2022 International Forum on Landscape Hydrology Education and Practice*, Tsinghua University, Beijing. International.
6. McPhillips, L., **Wu, H.**, Rojas, C., Rosenzweig, B., Sauer, J., & Winfrey, B. (2022). "Nature-Based Solutions as Critical Urban Infrastructure for Water Resilience," *Ecological Society of America 2022 Annual Meeting*. International.
7. Tebyanian, N.†, **Wu, H.**, Iulo, L. D., & Keller, K. (2022). "Uncertainty Considerations in Green Infrastructure Optimization: A Review," *The 23rd Annual International Digital Landscape Architecture (DLA) Conference*. International.
8. **[Workshop]** **Wu, H.**, Modricker, D., Cotrone, V., Koch, K., & Yench, A. (2022). "Green Infrastructure Workshop," *National Extension Energy Summit and National Sustainability Summit (NEES+NSS)*. National.
9. Wang, R.†, & **Wu, H.** (2022). "Willingness to Engage in Urban Stormwater Management: A Structural Equation Modelling Analysis," *National Extension Energy Summit and National Sustainability Summit*. National.
10. **Wu, H.**, Fischer, C., Clark, S. E., & McPhillips, L. (2022). "Salinity Transport in an Urban Bioretention Basin from De-Icing Salt Applications," *National Extension Energy Summit and National Sustainability Summit*. National.
11. **[Webinar]** Smithwick, E.A.H., Kaye, M.W., Taylor, A.H., Newman, P.B., Zipp, K.Y., & **Wu, H.** (2022). "Firescapes of the mid-Atlantic: challenges and opportunities for implementing prescribed burning as a land management strategy," *Oak Woodlands and Forests Fire Consortium*. National.

POSTERS

12. Adib, M.†, **Wu, H.**, Flohr, T. L., Echols, S., & Cruz, S. (2022). "Environmental education for stormwater stewardship." *Penn State Stuckeman School Research Symposium & Open House*.
13. Fischer, C., Clark, S., McPhillips, L., **Wu, H.**, & Gotsch, S. (2022). "Salt Transport in a Bioretention Basin after Roadway Deicing Applications," *Pennsylvania Stormwater Management Symposium*, Villanova University. Regional.
14. Nandy, S.†, & **Wu, H.** (2022). "Play to Live Longer," *Intergenerational Approaches for Living*,

Learning, and Growing in Pennsylvania. Regional.

15. Adib, M.†, **Wu, H.**, & Flohr, T. L. (2022). "Evaluating Community Engagement Mechanisms for Green Stormwater Infrastructure Development," *National Extension Energy Summit and National Sustainability Summit*. National.

2021

1. Fischer, C., Clark, S. E., McPhillips, L., **Wu, H.**, & Ryan, S. (2021). "Impact of Precipitation on De-Icing Salt Transport in a Bioretention Basin," *Harrisburg Area Geological Society meeting - A Round-Robin of Local University Student Research Projects*. Regional.
2. Clark, S. E., Fischer, C., McPhillips, L., **Wu, H.** (2021). "Salinity Transport in a Bioretention Basin Due to Winter Storm De-Icing Salt Applications", *American Water Resources Association (AWRA) 2021 Virtual Annual Water Resources Conference*. International.
16. Wu, M.†, **Wu, H.**, Li, H., & Liu, Z. (2021). "Simulating Landscape Evolution to Inform Ecological Restoration of Yongding River Beijing Segment under Multiple Scenarios," *Research and Practice of Landscape Architecture from the Perspectives of Multidisciplinary*, Tianjin University, China. National.
3. **[Invited] Wu, H.** & S. Myerov (2021). "COVID-19 Impacts on Pennsylvania MS4 Communities," *Penn State Extension July Water Cooler Talk*. Regional.
4. Tebyanian, N.†, **Wu, H.**, & lulo, L. D. (2021). "Green Infrastructure Placement Under Deep Uncertainty," *The 17th International Conference on Computational Urban Planning and Urban Management (CUPUM)*. International.
5. Yavari Bajehbaj, R., McPhillips, L., Brent, D., **Wu, H.**, & Grady, C. (2021). "Decision making framework for detecting sweetspots for green infrastructure implementation in the urban areas," *The 2021 Environmental & Water Resources Institute (EWRI) Congress*. International.
6. Wang, R.†, & **Wu, H.** (2021). "A Survey of Residents' Perception of Ecosystem Benefits of Green Stormwater Infrastructure in Chinese Sponge Cities," *CELA 2021 Annual Conference*. International.
7. Tebyanian, N.†, **Wu, H.**, & lulo, L. D. (2021). "Application of Many Objective Robust Decision Making (MORDM) Method for Green Infrastructure Planning," *CELA 2021 Annual Conference*. International.
8. Adib, M.†, **Wu, H.**, & Flohr, T. L. (2021). "Evaluating community engagement mechanisms for green stormwater infrastructure development," *CELA 2021 Annual Conference*. International.
9. **Wu, H.**, Smithwick, E.A.H., Zipp, K.Y., et al., (2021). "Perceptions of Prescribed Fires in the mid-Atlantic, USA.," *CELA 2021 Annual Conference*. International.
10. Wu, M.†, **Wu, H.**, Liu, Z., & Li, H. (2021). "Scenario-based River Morphology Simulation for Ecological Restoration of Yongding River in Beijing," *CELA 2021 Annual Conference*. International.

POSTERS

11. **[Invited] Tebyanian, N.†, lulo, L.D., & Wu, H.** (2021). "A Method for Green Infrastructure Placement under Deep Uncertainty," *Penn State Stuckeman School Research Open House*.
12. **[Invited] Hendricks, L.†, & Wu, H.** (2021). "Bioretention Landscape Design for Pollutant Removal," *Penn State Stuckeman School Research Open House*.
13. **[Invited] Adib, M.†, Wu, H., Flohr, T.L., & Kelsey, T.W.** (2021). "Evaluating Community Engagement Mechanisms for Green Stormwater Infrastructure Development," *Penn State*

Stuckeman School Research Open House.

14. **[Invited] Wu, H.** (2021). "Penn State Stormwater Living Lab: A Multi-disciplinary Initiative to Shape Penn State into a National Green Stormwater Infrastructure Leader," *Penn State Stuckeman School Research Open House.*
15. **[Invited] Wang, R.†, & Wu, H.** (2021). "Public Perception of Ecosystem Benefits of Green Stormwater Infrastructure: A Case Study in Chinese Sponge Cities," *Penn State Stuckeman School Research Open House.*
16. Roy, S.†, McPhillips, L., & **Wu, H.** (2021). "Carbon Sequestration and Greenhouse Gas Emissions in Urban Green Infrastructure," *CELA 2021 Annual Conference.* International.
17. Hendricks, L.†, & **Wu, H.** (2021). "Investigating the Barriers to Effective Implementation of Phytoremediating Plants in Bioretention Systems," *CELA 2021 Annual Conference.* International.

2020

1. Adib, M.†, & **Wu, H.** (2020). "Fostering Community-engaged Green Stormwater Infrastructure through the Use of Web-based Participatory Technologies," *The 21st annual International Digital Landscape Architecture (DLA) Conference.* International.
2. Smithwick, E.A.H., Taylor, A.H., Kreye, J., Zipp, K.Y., **Wu, H.**, et al., (2020). "Barriers and opportunities for science-policy coordination in mid-Atlantic firescapes," *North America Chapter of the International Association of Landscape Ecology Annual Meeting.* International.
3. **[Invited] Smithwick, E.A.H., Zipp, K.Y., Wu, H.**, et al., (2020). "Firescapes of the mid-Atlantic," *Center for Private Forests Webinar.* Regional.

[PRESENTATIONS ACCEPTED BUT CANCELED DUE TO COVID]

4. Flohr, T.L., **Wu, H.**, & Tebyanian, N.† (2020). "Computationally Assessing Existing and Proposed Ground-nesting Bee Habitat Resiliency," *CELA 2020 Annual Conference.*
5. Wang, R.†, & **Wu, H.** (2020). "Exploring the Public Perception of Green Stormwater Infrastructure in Chinese Sponge Cities," *CELA 2020 Annual Conference.*
6. Weikel, M.†, & **Wu, H.** (2020). "Framework for Assessing Climate Change Implications of Green Stormwater Infrastructure," *CELA 2020 Annual Conference.*
7. **Wu, H.**, Smithwick, E.A.H., Zipp, K.Y., et al., (2020). "Perceptions of Managed Fire Implementation in the mid-Atlantic, U.S.A.," *CELA 2020 Annual Conference.*
8. Wang, X., Gorenflo, L. J., & **Wu, H.** (2020). "The Cultural and Political Ecology of West Lake: Ecosystem Services of an Iconic Cultural Landscape in Eastern China," *CELA 2020 Annual Conference.*

POSTERS

9. **[Invited] Flohr, T.L., Miller, D.A., Wu, H., & Tebyanian, N.†** (2020). "Assessing Pollinator Habitat Resiliency," *2020 Stuckeman Center for Design Computing (SCDC) Flash Symposium,* Invited. Universities.
10. **[Invited] Roy, S.†, McPhillips, L., & Wu, H.** (2020). "Carbon Sequestration and Greenhouse Gas Emissions in Urban Green Infrastructure," *Research Experiences for Undergraduates (REU) Poster Symposium,* Penn State Drawdown, Invited. International.

[POSTERS ACCEPTED BUT CANCELED DUE TO COVID]

11. Wei, S.†, & **Wu, H.** (2020). “Enhancing the Quality of Life for Factory Workers in China through Landscape Design,” *CELA 2020 Annual Conference*.
12. Yang, J.†, & **Wu, H.** (2020). “Stormwater Design Toolbox for Managing Interchange Runoff in Beijing, China,” *CELA 2020 Annual Conference*.

2019

1. **[Keynote]** Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2019). “Firescapes in the mid-Atlantic: mismatches between social perceptions and prescribed fire use,” *2019 Pennsylvania Prescribed Fire Council Annual Meeting*. Regional.
2. **Wu, H.**, & Hall, J.† (2019). “Maintenance-friendly Planting Design for Green Stormwater Infrastructure,” *ASCE EWRI Operation and Maintenance of Stormwater Control Measures Conference*. International.
3. **Wu, H.**, & Hall, J.† (2019). “Exploring Maintenance-friendly Planting Design for Green Stormwater Infrastructure,” *CELA 2019 Annual Conference*. International.
4. Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2019). “Burning mismatches in firescapes of the mid-Atlantic,” *The 2019 annual meeting of the American Geophysical Union (AGU)*. International.
5. **[Invited]** Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2019). “Firescapes of the Mid-Atlantic: A Promethean Promise,” *Research Unplugged*, Penn State Office of Government and Community Relations and Schlow Library. Local.
6. **[Invited]** Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2019). “Firescapes in the mid-Atlantic,” *New Jersey Forest Fire Service All Staff Meeting*. Regional.
7. **[Invited]** Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2019). “Firescapes in the mid-Atlantic: mismatches between social perceptions and managed fire use,” *Central Appalachians Fire Learning Network Workshop*. Regional.
8. Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2019). “Burning mismatches in Firescapes of the mid-Atlantic,” *The sixth Fire in Eastern Oak Forests Conference*, Consortium of Appalachian Fire Managers and Scientists. Regional.
9. Flohr, T. L., **Wu, H.**, & Tebyanian, N.† (2019). “Addressing “The Challenge of Place in Time” with Geodesign: Example of Pollinator Habitat Resiliency,” *2019 Pennsylvania–Delaware Chapter of the American Society of Landscape Architects (ASLA) Annual Meeting*. Regional.

POSTERS

10. **[Invited]** Flohr, T.L., Miller, D.A., **Wu, H.**, & Tebyanian, N.† (2019). “Computationally assessing pollinator habitat resiliency,” *2019 Stuckeman Center for Design Computing (SCDC) Flash Symposium*, Invited. Universities.
11. **[Invited]** Weikel, M.†, & **Wu, H.** (2019). “Framework for Assessing Climate Change Implications of Green Stormwater Infrastructure,” *Research to Action: The Science of Drawdown*, Project Drawdown & Penn State University. International.
12. **[Invited]** Weikel, M.†, & **Wu, H.** (2019). “Framework for Assessing Climate Change Implications of Green Stormwater Infrastructure,” *Research Experiences for Undergraduates (REU) Poster Symposium*, Penn State Drawdown. National.

2018

1. Wu, H., & C. Silveira†. (2018). “Improving Environmental Performance Evaluation of Landscapes:

One Metric/Project at a Time.” *CELA 2018 Annual Conference*. International.

2. Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al, (2018). “Firescapes in the Mid-Atlantic: Mismatches between Social Perceptions and Prescribed Fire Use.” *The Association of American Geographers (AAG) 2018 Annual Conference*. International.
3. Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2018). “Public Perceptions of Prescribed Fire in Pennsylvania.” *Pennsylvania Prescribed Fire Council 2018 Annual Meeting*. Regional.
4. Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2018). “Firescapes in the Mid-Atlantic: Mismatches between Social Perceptions and Prescribed Fire Use.” *The Nature Conservancy Maryland Chapter Seminar*. Regional.
5. Smithwick, E.A.H., Zipp, K.Y., **Wu, H.**, et al., (2018). “Firescapes in the Mid-Atlantic: Mismatches between Social Perceptions and Prescribed Fire Use.” *Spring Technical Meeting of the Eastern States Section of the Combustion Institute*. Regional.

2017

1. **[Invited] Wu, H.** (2017). “Landscape Performance: One Project at a Time.” *Penn State Ecology + Design Inaugural Symposium*. National.
2. **[Invited] Wu, H.** (2017). “How Urbanization and Climate Change Interactively Affect Natural Streamflow Regimes.” *Catalyzing Interdisciplinary Research at the Frontiers of Human Ecological Dynamics, Center for Human Ecology at Penn State*.
3. **Wu, H.** & R. Henderson. (2017). “Beijing’s natural history.” *CELA 2017 Annual Conference*. International.

POSTER

4. **Wu, H.**, Y. Zou, L. Liu, & S. Jiang. 2016. “Designing rain gardens in north China: lessons learned from pilot projects.” *International Low Impact Development Conference*, International.

2011-2016

1. **[Workshop] Lenth, J., W. Lucas, D. Ahearn, Y. Yang, & H. Wu***. (2016). “Lesson learned from stormwater management in the United States.” *2016 International Low Impact Development (LID) Conference*. International.
2. **Wu, H.** (2016). “Protect stream ecosystem health with integrated stormwater management in the context of urbanization and climate change.” *2016 International Low Impact Development conference*. International.
3. Lenth, J., Hinman C., & **Wu, H.** (2016). “A statewide Low Impact Development training and certificate program for Washington State, USA and the potential for its adaptation in China.” *2016 International Low Impact Development Conference*. International.
4. Han, Y., Zhang, L., **Wu, H.**, & Hu, J. (2011). “A Wetland Park Planning Directed by Bird Habitat Requirements – Case Study of the Core Area Planning of Lotus Lake National Wetland Park in Tieling, China.” *2011 International Federation of Landscape Architects Asia-Pacific Regional (IFLA-APR) Congress*. International.
5. Han, Y., Zhang, L., **Wu, H.**, & Hu, J. (2011). “The Role of Research in Landscape Planning and Design - Case Study of the Lotus Lake National Wetland Park in Tieling, China.” *CELA 2011 Annual Conference*. International.

TEACHING

PENN STATE

LARCH 216/816/311/321/510, Landscape Systems Studio and Seminar	2016 - present
LARCH 336/838/431, Design Implementation – Stormwater Management	2016 - present
LARCH 235/231, Design Implementation – Grading	2017 - present
LARCH 112, Introductory Landscape Design Studio	2016
LARCH 424/510, Natural History of Cities	2015
LARCH 501, Research Design in Landscape Architecture	2015

UNIVERSITY OF OREGON (GRADUATE TEACHING FELLOW)

PPPM 199, Sustainable Urban Development in China, Univ. of Oregon	2013
LA 410/510, Climate Change Planning & Design, Univ. of Oregon	2009-2011
LA 408/508, Ecological Design Studio, Univ. of Oregon	2008

SYNERGISTIC ACTIVITIES

Editorial Responsibilities

Studies in the History of Gardens and Designed Landscapes	Editorial Advisory Board Member & Special Issue Editor	2019 - Present
Landscape Architecture 《风景园林》	Special Issue Editor	2020
Landscape Research Record No. 12	Co-Editor	2023
Landscape Research Record No. 11	Co-Editor	2022
Landscape Research Record No. 10	Co-Editor	2021
Landscape Research Record No. 9	Co-Editor	2020

Peer Review of Grants/Manuscripts

Journal of Sustainable Water in the Built Environment
Illinois Water Resources Center Annual Small Grants Program
Council of Educators in Landscape Architecture annual conference abstracts
Landscape Research Record
Landscape Architecture Foundation Case Study Briefs
Journal of Environmental Management
Landscape Journal
Studies in the History of Gardens & Designed Landscapes
International Journal of Environmental Research and Public Health
Environmental Monitoring and Assessment
Sustainability
Urban Forestry & Urban Greening
Urban Design International
Modern Urban Research (2017 Special Issue Urban Stormwater Management Frontiers)

SERVICE

INTERNATIONAL

2019-present Track Co-chair CELA Geo-spatial and Digital Analytics track

UNIVERSITY

2021/07-2023/06	Co-chair	University Water Council
2019-2021/06;	Council Member	University Water Council
2023/07-present		
2017-present	Steering Committee	Center for Landscape Dynamics (CLD)
2017-2019	Steering Committee	Water Research and Education at Penn State
2017-2019	Steering Committee	Center for Human Ecology

COLLEGE

2021-present	Member	LArch Department Head Advisory Committee
2021-present	Member	Hamer Center Advisory Board
2020-present	Member	Sustainability Council
2019-present	Member	Stuckeman Geodesign Advisory Board
2017-present	Steering Committee	Ecology + Design (E+D) Center
2016-present	International Student Advisor	Department of Landscape Architecture