

Elizabeth M. Cook

Assistant Scientist, Cary Institute of Ecosystem Studies

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Professional Appointments

2025–present	Assistant Core Scientist, Cary Institute of Ecosystem Studies, Millbrook, NY
2026–present	Associate Professor in Environmental Science, Barnard College, Columbia University, Environmental Science Department, New York, NY
2019–2026	Assistant Professor in Environmental Science, Sustainability, Barnard College, Columbia University, Environmental Science Department, New York, NY

Professional Preparation

2017–2019	Postdoctoral Fellow in Urban Ecology, The New School, Urban Systems Lab, Environmental Studies Department, New York, NY
2014–2017	Postdoctoral Fellow, Universidad Austral de Chile, Urban Sustainability and Global Change Lab, Instituto de Ciencias Ambientales y Evolutivas (Institute of Environmental Science and Evolution), Valdivia, Chile
2014	Ph.D., School of Life Sciences, Arizona State University, Tempe, AZ

Academic and Professional Honors

2024	Emily Gregory Teaching Award Nominee (Student-led Nomination)
2023–2024	Early Career Impact Fellowship, Columbia World Projects, Columbia University

Grant Activity

Active Grants

2026–2027	Cary Institute Science Innovation Fund: Developing a social-ecological framework of biodiversity and stewardship in dynamic urban green spaces. Total award: \$36,399 Role: PI (Co-PI S. LaDeau).
2025–2027	<i>Hudson River Foundation</i> : Relational values and stewardship in urban green spaces of Hudson River Watershed, Total award: \$107,959 Role: PI (Co-PI: M. Maurer, University of Copenhagen)
2022–2028	<i>NSF Central Arizona-Phoenix Long Term Ecological Research project renewal</i> (CAP LTER) \$4,000,000. Role: Senior Personnel (PI: D. Childers, Arizona State University, co-PIs: B. Ball, N. Grimm, K. Larson, B. Turner)
2019–2026	<i>NSF Growing Convergence Research (GCR)</i> , Converging social, ecological, and technological infrastructure systems (SETS) for urban resilience, \$1,750,000, Role: Co-PI (PI: M. Chester, Arizona State University, co-PIs: E.M. Cook, D. Iwaniec, T. McPhearson, T. Muñoz-Erickson)

Prior Awards Now Terminated

2024–2025	<i>NOAA National Integrated Heat Health Information System (NIHHIS)</i> : Center for HeatReady Communities. \$2,500,000. Role: Senior Personnel (PI: V.K. Turner, UCLA, co-PIs: S. Meerow, L. Keith) * <i>This award was unexpectedly terminated two years early by NOAA, May 5, 2025 *</i>
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2019–2025	<i>NSF AccelNet</i> , Nature-based solutions for urban resilience in Anthropocene (NATURA), \$2,000,000. Role: Co-PI (PIs collaborative: N. Grimm, Arizona State University, and T. McPhearson, The New School, co-PIs: E.M. Cook, Y. Kim)
2021–2025	<i>NSF IRES</i> : International Research Experience for Students (IRES), Resilient Urban Latin America \$293,000. Role: Co-PI (PI: N. Grimm (Arizona State University/University of Waterloo), co-PI: E.M. Cook)
2021–2025	<i>NSF GeoPaths-UP</i> : Creating a diverse group of leaders: The Environmental Science Pathways Scholars Program E(SP) ² . \$349,000. Role: Co-PI (PI: L. Brenner, Barnard College, co-PIs: E.M. Cook, B. Mailloux, T. Maenza-Gmelch, S. Rodriguez)
2023–2024	<i>NSF Center for Research in Innovation in Science, the Environment, and Society (CRISES): Planning</i> : Center for Urban Climate Adaptation Solutions. \$99,999. Role: Senior Personnel (PI: V. Beard, Cornell University)
2023–2024	<i>Early Career Impact Fellowship and Seed Grant</i> , Columbia University, Columbia World Projects, Total award: \$5,000 Role: PI
2021–2022	<i>NSF SRS-RN Track 2</i> : The Continuum of Urbanity as an Organizing Concept to Promote Sustainability in the Hudson Valley Region \$150,000. Role: Senior personnel (PI: S.T.A. Pickett, Cary Institute of Ecosystem Studies, co-PI: W. Hansen)
2021	<i>Columbia University, Earth Institute, Undergraduate Research Assistant Fellowship</i> for Multi-seasonal assessment of human wellbeing project, Total: \$2160. Role: PI
2021–2023	<i>Columbia University, Earth Institute Earth Frontiers Seed Grant</i> : Multi-seasonal assessment of human wellbeing, social resilience, and ecosystems in NYC during and after the Covid-19 pandemic, \$50,000. Role: Co-PI (PI: M. Maurer, Columbia University, co-PIs: E.M. Cook, B. Orlove)
2021–2022	<i>Columbia University, Earth Institute, Environmental Justice & Climate Justice City Network</i> , \$30,000. Role: Senior Personnel (PI: J. Klopp (Columbia University), co-PI: C. Braneon)
2020–2023	<i>The Mellon Foundation-Barnard College, Barnard Engages New York</i> . Collaborative Partnerships to Promote Sustainable Change with WE ACT for Environmental Justice, Total award: \$50,000. Role: Co-PI (PI: L Brenner, Barnard College, co-PIs: EM. Cook, M. Stute)
2020–2021	<i>NSF RAPID</i> . Examining how access to green space impacts subjective well-being during the COVID-19 Pandemic, Total award: \$100,000. Role: Co-PI (PI: B. Mailloux, Barnard College, co-PIs: E.M. Cook, T. Culligan, M. Maurer, B. Orlove)
2018–2022	<i>NSF Central Arizona-Phoenix Long Term Ecological Research project renewal</i> (CAP LTER) \$4,000,000. No sub-award for this project. Role: Senior Personnel (PI: D. Childers, Arizona State University, Co-PIs: N. Grimm, K. Larson, B. Turner)
2016–2020	<i>NSF International Research Experience for Students (IRES)</i> : Research on urban resilience in Latin America, \$249,000. Role: Senior Personnel (PI: N. Grimm, Arizona State Uni, co-PI: T. Muñoz-Erickson)
2018	<i>The Mellon Foundation, Civic Liberal Arts Program Teaching Award</i> , The New School, Total award: \$10,000. Role: PI
2014–2017	<i>Postdoctoral Fellow</i> , Comisión Nacional de Investigación Científica y Tecnológica (CONICYT) National postdoctoral grant competition, Universidad Austral de Chile, Total award: \$107,000 USD. Role: PI
2012	<i>School of Life Sciences Lisa Dent Memorial Fellowship</i> , Arizona State University, Total award \$4500. Role: PI
2010	<i>Graduate Student Research Grant</i> , CAP LTER, Arizona State University, \$4000. Role: PI
2010	<i>Frontiers in Life Science Conference Series Grant</i> , Sustainable Phosphorus Summit: Phosphorus, food, and our future, Arizona State University, \$30,000. Role: Co-PI
2007–2014	<i>NSF IGERT Fellow in Urban Ecology</i> , Integrative Graduate Education and Research Traineeship (IGERT) program, Arizona State University, \$93,000.

Publications and Creative Work

Books

1. Hamstead, Z.A., D.M. Iwaniec, T. McPhearson, M. Berbés-Blázquez, **E.M. Cook**, T.A. Munoz-Erickson, (Eds.). **2021**. *Resilient Urban Futures*. Springer International Publishing. <https://doi.org/10.1007/978-3-030-63131-4>

Journal Articles

Undergraduate student^{^^} trainee; Graduate student or postdoctoral fellow trainee

1. **Cook, E.M.**, J. Sauer, K. Weil-González, O. Barbosa. *In Press*. Multiple drivers and long-term patterns of the ecology of segregation in Latin America. ***Proceedings of National Academies of Sciences***.
2. **Herreros-Cantis, P.**, T. McPhearson, B. Rosenzweig, M. Madajewicz, **E.M. Cook**, V. Olivotto, E. Dennis, F. Montalto, J. Cherrier. *In Press*. Expanding Frameworks: Integrating Vulnerability, Exposure, and Critical Infrastructure to Assess Pluvial Flood Risks in New York City. ***Proceedings of the National Academy of Sciences***.
3. M. Alberti, N.B. Grimm, E. Palkovacs, M. Urban, B. Verrelli, P. Anderson, E. Carlen, J. Cocciardi, **E.M. Cook**, M.-J. Fortin, K. Gotanda, S. Hobbie, M. Johnson, A. Melesis-Dahm, L. Miles, C. Roman Palacios, M. Rixey, D. Valenzuela, A. Savage, R. Snyder, K. Winchell, Y. Zhou. **2026**. Evolving Nature-Based Solutions for Urban Climate Change Resilience. ***Science***. 392(6799), 701–708. <https://doi.org/10.1126/science.aea9563>
4. **Mattson, M.**, **I. Pacenza^{^^}**, **S. Jadala^{^^}**, **C. Romero^{^^}**, A. Martin, M. Berbés-Blázquez, **E.M. Cook**, M. Feagan, M. Borbor-Cordova, P. Cornejo-Rodriguez, N.B. Grimm. **2026**. Rethinking Nature-based Solutions in Informal Settlements: Community Perceptions of Urban Risk in Durán, Ecuador. ***Climate and Development***. <https://doi.org/10.1080/17565529.2026.2643386>
5. Pickett, S.T.A.P., W. Zhou, D.L. Childers, J.M. Grove, W.D. Hansen, D.H. Locke, C.G. Boone, K.C. Seto, D. Zhaxi, S.L. LaDeau, L. Nevarez, R. Fruedenberg, C. Solomon, **E.M. Cook**, R. Urban-Mead, D. Maddox, A.R. Bosch. **2026**. The Continuum of Urbanity: A Synthetic Concept for Research on Urban-Rural Mixtures. ***npj Urban Sustainability***. 6, Article 36. <https://doi.org/10.1038/s42949-026-00347-8>
6. Hale, R., K. Capps, **E.M. Cook**, R. Scarlett. **2026**. Transformative adaptation needed to break cycles of inequitable urban flood management. ***Nature Water***. 4(2), 147–157. <https://doi.org/10.1038/s44221-025-00569-7>
7. **Solvie, A.L.**, O. García-Antúnez, **E.M. Cook**, N.M. Gulsrud, A.S. Olafsson, M. Maurer. **2026**. What turns us off about green and blue spaces in cities? Understanding perceived problems and unpleasant experiences for more just urban planning, design and management. ***People and Nature***. 00, 1–17. <https://doi.org/10.1002/pan3.70358>
8. **Lloyd, R.**, A. Pallathadka, J. Sauer, H. Chang, D.M. Iwaniec, I. Ajibade, **E.M. Cook**, M. Berbés-Blázquez, N.B. Grimm, G.C. Post. **2026**. From red tape to red infrastructure—Insights from urban flood risk management practitioners in four US cities. ***Urban Transitions***. 6, 100036. <https://doi.org/10.1016/j.ubtr.2026.100036>
9. **Cook, E.M.**, Y. Kim, N.B. Grimm, T. McPhearson, P. Anderson, H.A. Bulkeley, L. Diep, J. Morato Ferreras, W. Zhou. **2025**. Nature-based Solutions for Urban Sustainability. ***Proceedings of National Academies of Sciences***. 122(29), e2315909122. <https://doi.org/10.1073/pnas.2315909122>
10. Carlen, E.J., Caizergues, A., Jagielło, Z., H. Kuzyo, J. Munshi-South, M. Alberti, F. Angeoletto, S. Bonilla, W. Booth, A. Charmantier, **E.M. Cook**, K.M. Gotanda, L. Govaert, L.E. Johnson, D. Li, A.N. Malesis, E. Martin, J.M. Marzluff, M. Mazurek, L.S. Miles, M. Phifer-Rixey, D. Salazar-Valenzuela, A. Savage, R. Snyder, I. Stadnicki, Y. Vergeles, B.C. Verrelli, D. Villar, M. Wilhelm-Solomon, M. Willmott, K.M.

- Winchell, S.S. Yates, Y. Zhou, C.J. Garroway, M. Szulkin. **2025**. Legacy effects of religion, politics, and war on urban evolutionary biology. *Nature Cities* 2, 593-602.
11. McPhearson T., N. Frantzeskaki, A. Ossola, L. Diep, P. Anderson, T. Blatch, M. Collier, **E.M. Cook**, C.C. Fatti, Z.J. Grabowski, N.B. Grimm, D. Haase, P. Herreros-Cantis, J. Kavonic, B.B. Lin, D.H. Lopez-Meneses, A.M. Matsler, M. Moglia, J. Morato, P. O'Farrell, P. Roy, C. Singh, J. Wang, W. Zhou. **2025**. Global synthesis and regional insights for mainstreaming urban nature-based solutions. *Proceedings of National Academies of Sciences*. 122(29), e2315910121. <https://doi.org/10.1073/pnas.2315910121>
 12. Wang, J., W. Zhou, T. McPhearson, **E.M. Cook**, P. Herreros-Cantis, J. Liu. **2025**. Socio-Ecological Impacts of the Investment of Urban Nature in Heat Mitigation for Two Megacities. *Earth's Future*. <https://doi.org/10.1029/2025EF005976>
 13. Dutta, M., P. Herreros-Cantis, T.M. McPhearson, A. Mustafa, M. Palmer. M. Tosca, J. Ventrella. **E.M. Cook**. **2025**. NYC 2100: Ecosystem service and environmental justice implications of future extreme heat. *Landscape and Urban Planning*. 254, 105249. <https://doi.org/10.1016/j.landurbplan.2024.105249>
 14. Feagan, M., T.A. Muñoz-Erickson, R. Hobbins, K. Baja, M. Chester, M., **E.M. Cook**, N.B. Grimm, M. Grove, D.M. Iwaniec, & S. Iyer. **2025**. Co-producing new knowledge systems for resilient and just coastal cities: A social-ecological-technological systems framework for data visualization. *Cities*. 156, 105513. <https://doi.org/10.1016/j.cities.2024.105513>
 15. Shankar, M., M. Ng, M. Rogers, **E.M. Cook**, D. Herrmann, K. Schwarz. **2024**. Unearthing the role of soils in urban climate resilience planning. *Nature Sustainability*. 7(11), 1374–1376. <https://doi.org/10.1038/s41893-024-01436-1>
 16. Visnic, O. ^{^^}, M. Maurer, L. Yoon, **E.M. Cook**. **2024**. Shifting more-than-human relationships amidst social-ecological disturbance, *People and Nature*. 6(5), 1933–1944. <http://doi.org/10.1002/pan3.10687>
 17. Mailloux, B.M., C. McGillis, T. Maenza-Gmelch, P. Culligan, T. Sanchez, G. Kaspi, M. Miley ^{^^}, E. Komita-Moussa ^{^^}, E. Steiger ^{^^}, H. Zhao, Z. He, **E.M. Cook**. **2024**. Large-scale determinants of street tree growth rates across an urban environment. *PLOSOne*. 19(7), e0304447. <https://doi.org/10.1371/journal.pone.0304447>
 18. Sauer, J., N.B. Grimm, **E.M. Cook**, O. Barbosa, T. McPhearson, A. Mustafa. **2024**. Estimating combined effects of climate change and land cover on water regulation services of urban wetlands in Valdivia, Chile, *Earth's Future*. 12(5), e2023EF003801. <https://doi.org/10.1029/2023EF003801>
 19. Balk, D., T. McPhearson, **E.M. Cook**, K. Knowlton, N. Maher, P. Marcotullio, T. Mattework, L. Ortiz, J. Towers, J. Ventrella, G. Wagner. **2024**. NPCC4: Concepts and Tools for Envisioning New York City's Futures. *Annals of the New York Academy of Sciences*. <https://doi.org/10.1111/nyas.15121> 1539(1), 277–322.
 20. Warner, K. ^{^^}, N. Sonti, **E.M. Cook**, R. Hallett, L.R. Hutyrá, A. Reinmann. **2024**. Urbanization exacerbates climate sensitivity of eastern U.S. broadleaf trees. *Ecological Applications*. <http://doi.org/10.1002/eap.2970>
 21. Zhao, H., B.J. Mailloux, **E.M. Cook**, P.J. Culligan. **2023**. Change of Urban Park Usage as a Response to the COVID-19 Global Pandemic. *Scientific Reports*. 13(1), Article 1. <https://doi.org/10.1038/s41598-023-46745-1>
 22. Berbés-Blázquez, M., **E.M. Cook**, N.B. Grimm, D.M. Iwaniec, L.M. Mannetti, T.A. Muñoz-Erickson, D. Wahl. **2023**. Assessing resilience, equity, and sustainability of future visions across two urban scales. *Sustainability Science*. 18(6), 2549–2566. <https://doi.org/10.1007/s11625-023-01396-z>
 23. Shaw, J. ^{^^}, S. Collins, T. Ohlert, H. Heavenrich, **E.M. Cook**, M. Wheeler, N.B. Grimm, S.J. Hall. **2023**. Seasonal rainfall, shrub cover and soil properties drive production of winter annuals in the northern Sonoran Desert. *Ecosystems*. 26(7), 1556–1572. <https://doi.org/10.1007/s10021-023-00850-4>

24. Maurer, M., L.Yoon, O.Visnic[^], **E.M. Cook**, 2023. Effects of perceptions of greenspace benefits during the COVID-19 pandemic. *Local Environment*. 28(10), 1279–1294.
<https://doi.org/10.1080/13549839.2023.2202381>
25. Chester, M. V., T.R. Miller, T.A. Muñoz-Erickson, A.M. Helmrich, D.M. Iwaniec, T. McPhearson, **E.M. Cook**, N.B. Grimm, S.A. Markolf. 2023. Sensemaking for entangled urban social, ecological, and technological systems in the Anthropocene. *npj Urban Sustainability*. 3(1), 39.
<https://doi.org/10.1038/s42949-023-00120-1>
26. Sauer, J., A. Pallathadka, I. Ajibade, M. Berbés-Blázquez, H. Chang, **E.M. Cook**, N.B. Grimm, D.M. Iwaniec, R. Lloyd, G.C. Post. 2023. Relating social, ecological, and technological vulnerability to future flood exposure at two spatial scales in four U.S. cities. *Sustainable Cities and Society*. 99, 104880.
<https://doi.org/10.1016/j.scs.2023.104880>
27. Wang, J., T. McPhearson, W. Zhou, **E.M. Cook**, P. Herreros-Cantis, J. Liu. 2023. Comparing relationships between urban heat exposure, ecological structure, and socio-economic patterns in Beijing and New York City. *Landscape and Urban Planning*. 235, 104750.
<https://doi.org/10.1016/j.landurbplan.2023.104750>
28. McPhillips, L., M. Berbés-Blázquez, R. Hale, T. Harms, V. Bisht, L. Caughman, S. Clinton, **E.M. Cook**, X. Dong, et al 2023. Learning from arid and urban aquatic ecosystems to inform more sustainable and resilient futures. *Journal of Hydrology*. <https://doi.org/10.1016/j.jhydrol.2022.128841>
29. McPhearson, T.**, **E.M. Cook****, M. Berbés-Blázquez, C. Cheng, N.B. Grimm, E. Andersson, O. Barbosa, D. Chandler, H. Chang, M. Chester, D.L. Childers, S.R. Elser, N. Frantzeskaki, Z. Grabowski, P. Groffman, R.L. Hale, D.M. Iwaniec, N. Kabisch, C. Kennedy, S.A., Markolf, A.M. Matsler, L.E. McPhillips, T.R. Miller, T.A. Muñoz-Erickson, E. Rosi, T.G. Troxler. 2022. A Social-Ecological-Technological Systems Framework for Urban Ecosystem Services. *One Earth*.
<http://doi.org/10.1016/j.oneear.2022.04>. **Contributed equally as lead author.
30. Wheeler, M., K.L. Larson, **E.M. Cook**, S.J. Hall. 2022. Residents manage dynamic plant communities: change over time in urban vegetation. *Frontiers in Ecology and Evolution*. 10.
<https://doi.org/10.3389/fevo.2022.944803>
31. Kache, P. A., M. Santos-Vega, A.M. Stewart-Ibarra, **E.M. Cook**, K.C. Seto, & M.A. Diuk-Wasser. 2022. Bridging landscape ecology and urban science to respond to the rising threat of mosquito-borne diseases. *Nature Ecology & Evolution*. 6(11), Article 11. <https://doi.org/10.1038/s41559-022-01876-y>
32. Balk, D., D. Tagtachian, L. Jiang, P. Marcotullio, **E.M. Cook**, B. Jones, A. Mustafa, & T. McPhearson. 2022. Frameworks to envision equitable urban futures in a changing climate: A multi-level, multidisciplinary case study of New York City. *Frontiers in Built Environment*. 8.
<https://doi.org/10.3389/fbuil.2022.949433>
33. Mejía, G.A., P.M. Groffman, A.E. Downey, **E.M. Cook**, S. Sritrairat, R. Karty, M.I. Palmer, T. McPhearson. 2022. Nitrogen cycling and urban afforestation success in New York City. *Ecological Applications*. 32(3), e2535. <http://doi.org/10.1002/eap.2535>
34. Maurer, M. **E.M. Cook**, L.Yoon, O.Visnic, B. Orlove, P. Culligan, B. Mailloux. 2021. Understanding Multiple Dimensions of Greenspace Accessibility and their Effect on Subjective Well-being During a Global Pandemic. *Frontiers in Sustainable Cities*. <https://doi.org/10.3389/frsc.2021.709997>
Corrigendum published 2022. https://doi.org/10.3389/frsc.2022.1057493
35. Downey, A.E., P.M. Groffman, G.A. Mejía, **E.M. Cook**, S. Sritrairat, R. Karty, M.I. Palmer, T. McPhearson. 2021. Soil Carbon Sequestration in Urban Afforestation Sites in New York City. *Urban Forestry and Urban Greening*. Vol. 65, 127342, pp. 1-9. <https://doi.org/10.1016/j.ufug.2021.127342>
36. Muñoz-Erickson, T.A., S. Meerow, R. Hobbins, **E.M. Cook**, D.M. Iwaniec, M. Berbés-Blázquez, N.B. Grimm, A. Barnett, J. Cordero, C. Gim, T.R. Miller, F. Tandazo-Bustamante, A. Robles-Morua. 2021. Beyond Bouncing Back? Comparing and Contesting Urban Resilience Frames in US and Latin American

Contexts. **Landscape and Urban Planning**. Vol. 214, 104173, pp. 1-13.
<https://doi.org/10.1016/j.landurbplan.2021.104173>

37. Wheeler, M. S.L. Collins, N.B. Grimm, **E.M. Cook**, C. Clark, R. Sponseller. S.J. Hall. **2021**. Water and nitrogen shape winter annual plant diversity and community composition in near-urban Sonoran Desert preserves. **Ecological Monographs**. e01450. <https://doi.org/10.1002/ecm.1450>
38. Iwaniec, D.M., M. Gooseff, K.N. Suding, D.S. Johnson, D.C. Reed, D.P.C. Peters, B. Adams, J. Barrett, B.T. Bestelmeyer, M.C.N. Castorani, **E.M. Cook**, M.J. Davidson, *et al.* **2021**. Connectivity: Insights from the U.S. Long Term Ecological Research Network. **Ecosphere**. Vol. 12(5) Article e03432, pp 1-30. <https://doi.org/10.1002/ECS2.3432>
39. Iwaniec, D.M., **E.M. Cook**, M.D. Davidson, N.B. Grimm, M. Berbés-Blázquez, M. Georgescu, S. Krayenhoff, X. Li, A. Middell, D. Sampson. **2020**. The co-production of sustainable future scenarios. **Landscape and Urban Planning**. Vol. 197, 103744, p 1-11. <https://doi.org/10.1016/j.landurbplan.2020.103744>
40. Iwaniec, D.M., **E.M. Cook**, M.D. Davidson, M. Berbés-Blázquez, N.B. Grimm. **2020**. Integrating Existing Climate Adaptation Planning into Future Visions: A Strategic Scenario for the Central Arizona-Phoenix Region. **Landscape and Urban Planning**. Vol. 200, 103820, pp 1-8. <https://doi.org/10.1016/j.landurbplan.2020.103820>
41. Sampson, D.A. **E.M. Cook**, M.D. Davidson, N.B. Grimm, D.M. Iwaniec. **2020**. Simulating Alternative Water Futures. **Sustainability Science**. Vol. 15, 1199-1210, pp. 1-12. <https://doi.org/10.1007/s11625-020-00820-y>
42. Hale, R.L., **E.M. Cook**, B.J. Beltrán. **2019**. Cultural ecosystem services identified from social media data across diverse social-ecological landscapes. **Ecological Indicators**. Vol. 107, 105580, pp. 1-10. <https://doi.org/10.1016/j.ecolind.2019.105580>
43. Iwaniec, D.M., **E.M. Cook**, O. Barbosa, N.B. Grimm. **2019**. The framing of urban sustainability transformations. **Sustainability**. Vol. 11, 573, pp. 1-10. <https://doi.org/10.3390/su11030573>
**Contributed equally as lead author
44. **Cook, E.M.**, R. Sponseller, N.B. Grimm, S.J. Hall. **2018**. Mixed method approach to assess atmospheric nitrogen deposition in arid and semi-arid ecosystems. **Environmental Pollution**. Vol. 239, 617-630, pp. 1-14. <https://doi.org/10.1016/j.envpol.2018.04.013>
45. Corman, J.R., S.L. Collins, **E.M. Cook**, X. Dong, L.A. Gherardi, N.B. Grimm, R.L. Hale, T. Lin, O. Sala, J. Ramos, L.G. Reichmann. **2018**. Foundations and Frontiers of ecosystem science: Legacy of a classic paper (Odum 1969). **Ecosystems**. Vol. 22, 1160-1172, pp. 1-13. <https://doi.org/10.1007/s10021-018-0316-3>
46. Mazzorana, B., A. Nardini, F. Comiti, G. Vignoli, **E.M. Cook**, H. Ulloa, A. Iroumé. **2018**. Toward participatory-decision making in river corridor management: two case studies from the European Alps. **Journal of Environmental Planning and Management**. Vol. 61:7, 1250-1270, pp 1-21. <https://doi.org/10.1080/09640568.2017.1339593>
47. van Vliet, J., P.H. Verburg, N. Maglicocca, B. Büchner, **E.M. Cook**, J.M. Rey Beneyas, E.C. Ellis, A. Heinimann, E. Keys, T. Ming Lee, J. Liu, O. Mertz, P. Meyfroidt, M. Moritz, C. Poeplau, B.E. Robinson, R. Seppelt, K.C. Seto, P.H. Verburg. **2016**. Meta-studies in land use science: Current coverage and prospects. **Ambio**. Vol. 45: 15-28, pp. 1-14. <https://doi.org/10.1007/s13280-015-0699-8>
48. Davis (née Schmoker), M.K., **E.M. Cook**, S.L. Collins, S.J. Hall. **2015**. Top-down vs. bottom-up regulation of herbaceous primary production and composition in an arid, urbanizing ecosystem. **Journal of Arid Environments**. Vol. 116: 103-114, pp. 1-12. <https://doi.org/10.1016/j.jaridenv.2015.01.018>

49. **Cook, E.M.***, S.J. Hall, and K.L. Larson. **2012**. Residential landscapes as social-ecological systems: A synthesis of multi-scalar interactions between people and their home environment. *Urban Ecosystems*. Vol. 15: 19-52, pp. 1-34. <https://doi.org/10.1007/s11252-011-0197-0>
50. Boone, C.G., **E.M. Cook**, S.J. Hall, N.B. Grimm, C. Raish, D.M. Finch, M.L. Nation, and A. York. **2012**. A comparative gradient approach to understanding and managing urban ecosystems. *Urban Ecosystems*. Vol. 15(4): 795–807, pp. 1-13. <https://doi.org/10.1007/s11252-012-0240-9>
51. Metson, G.S, R.L. Hale, D.M. Iwaniec, **E.M. Cook**, J.R. Corman, C.S. Galletti, and D.L. Childers. **2012**. Phosphorus in Phoenix: A budget and spatial representation of phosphorus in an urban ecosystem. *Ecological Applications*. 22(2): 705-721. pp. 1-17. <https://doi.org/10.1890/11-0865.1>
52. Roy Chowdhury, R., K.L. Larson, J.M. Grove, C. Polsky, **E.M. Cook**, J. Onsted, and L. Ogden. **2011**. A multi-scalar approach to theorizing socio-ecological dynamics of urban residential landscapes. *Cities and the Environment*. Vol. 4, Issue 1, Article 6, pp 1-19. <https://digitalcommons.lmu.edu/cate/vol4/iss1/6/>
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54. Pace, M.L., S.E. Hampton, K. E. Limburg, E.M. Bennett, **E.M. Cook**, A.E. Davis, J.M. Grove, K.Y. Kaneshiro, S.L. LaDeau, D. McKnight, D.C. Richardson, D.L. Strayer. **2010**. Communicating with the Public: Opportunities and Rewards for Individual Ecologists. *Frontiers in Ecology and the Environment*. Vol. 8(6): 292-298, pp. 1-7. <https://doi.org/10.1890/090168>

Book Chapters

1. **Cook, E.M.**, R.L. Hale, A.P. Kinzig, J.M. Grove. **2024**. Urban–Suburban Biodiversity. In *Encyclopedia of Biodiversity*, Third Edition. Elsevier. pp. 52-63.
2. **Cook, E.M.**, M. Karuka, A.M. Simms, J. Jurich, Y. Dinoor, R. Elkis. **2023**. Panel Three: Environmental Justice, March 26, 2021 in: Rivera Maulucci, M. S., Pfirman, S., & Callahan, H. C., (Eds.). *Transforming Education for Sustainability: Discourses on Justice, Inclusion, and Authenticity*. Environmental Discourses in Science Education: Springer
3. Kennedy, C., I.E. Schneider, M. Maurer, L.K. Campbell, M. Johnson, C.J. Wynveen, S Sachdeva, R.W. Christiana, E. Svendsen, **E.M. Cook**, K. Tangtrakul, S. Woerdeman, F. Montalto. **2024**. Revealing greenspace as critical social infrastructure during COVID-19. In *Reimagining Public Spaces and Built Environments in the Post-Pandemic World*. Ethics International Press.
4. Sauer, J., O. Barbosa, **E.M. Cook**, N.B. Grimm, C. Lamarca, J. Maira, A. Schueftan, & D.M. Iwaniec **2022**. Envisioning future scenarios to manage pluvial flooding in social-ecological-technological systems. In *Collaborating for Climate Equity*. Routledge.
5. **Cook, E.M.**, M. Berbés-Blázquez, L.M., Mannetti, N.B. Grimm, D.I. Iwaniec, T.A. Muñoz-Erickson. **2021**. Setting the Stage for Co-Production (Chapter 7). In Eds, Hamstead, Z., D.M. Iwaniec, T. McPhearson, M. Berbés-Blázquez, **E.M. Cook**, T.A. Muñoz-Erickson, *Resilient Urban Futures*. (pp. 99–111). Springer International Publishing. https://doi.org/10.1007/978-3-030-63131-4_7
6. Iwaniec, D. M., Grimm, N. B., McPhearson, T., Berbés-Blázquez, M., Cook, E.M., & Muñoz-Erickson, T.A. **2021**. A Framework for Resilient Urban Futures. In Z. A. Hamstead, D.M. Iwaniec, T. McPhearson, M. Berbés-Blázquez, **E.M. Cook**, & T.A. Muñoz-Erickson (Eds.), *Resilient Urban Futures* (pp. 1–9). Springer International Publishing. https://doi.org/10.1007/978-3-030-63131-4_1
7. Iwaniec, D.M., Berbés-Blázquez, M., **Cook, E.M.**, Grimm, N.B., Mannetti, L.M., McPhearson, T., & Muñoz-Erickson, T.A. **2021**. Positive Futures. In Z.A. Hamstead, D.M. Iwaniec, T. McPhearson, M. Berbés-Blázquez, E.M. Cook, & T.A. Muñoz-Erickson (Eds.), *Resilient Urban Futures* (pp. 85–97). Springer International Publishing. https://doi.org/10.1007/978-3-030-63131-4_6

8. Berbés-Blázquez, M., Grimm, N.B., **Cook, E.M.**, Iwaniec, D.M., Muñoz-Erickson, T.A., Hobbins, V., & Wahl, D. **2021**. Assessing Future Resilience, Equity, and Sustainability in Scenario Planning. In Z.A. Hamstead, D.M. Iwaniec, T. McPhearson, M. Berbés-Blázquez, E.M. Cook, & T.A. Muñoz-Erickson (Eds.), *Resilient Urban Futures* (pp. 113–127). Springer International Publishing. https://doi.org/10.1007/978-3-030-63131-4_8
9. Muñoz-Erickson, T.A., Selkirk, K., Hobbins, R., Miller, C., Feagan, M., Iwaniec, D.M., Miller, T. R., & **Cook, E.M.** **2021**. Anticipatory Resilience Bringing Back the Future into Urban Planning and Knowledge Systems. In Z.A. Hamstead, D.M. Iwaniec, T. McPhearson, M. Berbés-Blázquez, E.M. Cook, & T.A. Muñoz-Erickson (Eds.), *Resilient Urban Futures* (pp. 159–172). Springer International Publishing. https://doi.org/10.1007/978-3-030-63131-4_11
10. McPhearson, T., Iwaniec, D.M., Hamstead, Z.A., Berbés-Blázquez, M., **Cook, E.M.**, Muñoz-Erickson, T. A., Mannetti, L., & Grimm, N. **2021**. A Vision for Resilient Urban Futures. In Z. A. Hamstead, D.M. Iwaniec, T. McPhearson, M. Berbés-Blázquez, **E.M. Cook**, & T.A. Muñoz-Erickson (Eds.), *Resilient Urban Futures* (pp. 173–186). Springer International Publishing. https://doi.org/10.1007/978-3-030-63131-4_12
11. **Cook, E.M.** and T. McPhearson. **2020**. A Transdisciplinary Urban Ecology Approach to Complex Urban Systems. In Anderson. P., Douglas, I., Goode, D., Houck, M., Maddox, D., Nagendra, H., Puay Yok, T. (eds.) *The Routledge Handbook of Urban Ecology*, 2nd Edition. pp. 63-75. Taylor and Francis Press. <https://doi.org/10.4324/9780429506758>
12. Grimm, N.B., **E.M. Cook**, R.L. Hale, D.M. Iwaniec. **2016**. A broader framing of ecosystem services in cities: benefits and challenges of built, natural, or hybrid system function. In K.C. Seto, W.D. Solecki, C. Griffith (eds.) *The Routledge Handbook of Urbanization and Global Environmental Change*. Routledge Press. 203-212. <https://doi.org/10.4324/9781315849256>
13. **Cook, E.M.**, R.L. Hale, A.P. Kinzig, J.M. Grove. **2013**. Urban-Suburban Biodiversity. In S. Levin (ed) *Encyclopedia of Biodiversity*, 2nd Edition. Elsevier Press. 304-313. <https://doi.org/10.1016/B978-0-12-384719-5.00317-8>
14. Grimm N.B., R.L. Hale, **E.M. Cook**, D.M. Iwaniec. **2010**. Urban biogeochemical flux analysis. In I. Douglas, D. Goode, M. Houck, and R. Wang (eds.) *The Routledge Handbook of Urban Ecology*. Routledge Press. 503-520. <https://doi.org/10.4324/9780203839263>

Conference Presentations

Undergraduate student^{^^} trainee; Graduate student trainee

1. **Cook, E.M.**, M. Maurer, M. Nystrom. 2026. Collaborative on relational values and stewardship in NYC Urban green spaces. Invited Panel Presentation. San Francisco, California.
2. **Cook, E.M.**, M. Maurer, M. Nystrom. 2026. Not Just Green: Understanding diverse values (and disvalues) of urban nature for green space planning. American Association of Geographers. Oral Presentation. San Francisco, California.
3. **Cook, E.M.** and M. Maurer. 2025. Beyond Green: Diverse values of nature provide insights for urban green space planning. Ecological Society of America. Oral Presentation. Baltimore, Maryland.
4. Nystrom, M.^{^^}, S. Igbinsosa, M. Maurer, E.H. Joo, M. Aronson, J. Klopp, **E.M. Cook**. 2025. How do people assign value to NYC parks? Relationships with and within urban greenspace. American Association of Geographers. Poster Presentation. Detroit, Michigan.
5. Chin, S.^{^^}, M. Aronson, P. Groffman, J. Klopp, T. McPhearson, G. Mejía, M. Palmer, **E.M. Cook**. 2025. Reframing success in afforestation: NYC Million Trees as a case study. American Association of Geographers. Poster Presentation. Detroit, Michigan.

6. **Cook, E.M.**, S. Chin, P. Groffman, T. McPhearson, G. Mejía, M. Palmer. 2024. Monitoring long-term success in urban afforestation: A 10-year case study from NYC Million Trees Initiative. Ecological Society of America. Oral Presentation. Long Beach, California.
7. **Cook, E.M.**, M. Berbés-Blázquez, S. Markolf, M. Chester, D.I. Iwaniec, T. McPhearson, T.A. Muñoz-Erickson, N.B. Grimm. Social-Ecological-Technological Systems (SETS) Resilience. 2024. Proceedings of Ecosystem Change and Sustainability: Pathways to Sustainability and Social-Ecological Resilience. Oral Presentation Montreal, Quebec.
8. **Cook, E.M.**, M. Maurer, L. Campbell, M. Diuk-Wasser, M. Johnson, B. Orlove, M. Palmer, E. Svendsen. 2023. Cultural ecosystem service provision in diverse New York City greenspaces. Ecological Society of America. Oral Presentation. Portland, Oregon.
9. **Cook, E.M.**, M. Maurer, L. Campbell, M. Diuk-Wasser, M. Johnson, B. Orlove, M. Palmer, E. Svendsen. 2023. Multi-functional benefits of small and large green spaces in New York City. American Association of Geographers. Oral Presentation. Denver, Colorado.
10. Dutta, M., M. Tosca, M. Palmer. **E.M. Cook**. 2023. Environmental justice implications of future ecosystem service distribution for New York City in 2100. American Association of Geographers. Poster Presentation. Denver, Colorado.
11. Ren, E.^{^^}, **E.M. Cook**. 2023. Hyper-local Heat: A neighborhood and Microclimate analysis of 2019 heat wave in New York City. American Association of Geographers. Poster Presentation. Denver, Colorado.
12. Wellington D.^{^^}, L. Zakari^{^^}, S. Jessel, L. Brenner, **E.M. Cook**. 2023. Recording Individually Experienced Heat Stress During a New York City heatwave in Northern Manhattan. American Association of Geographers. Poster Presentation. Denver, Colorado.
13. **Cook, E.M.**, J. Ventrella, D. Iwaniec, L. Mannetti, T. McPhearson, T. Muñoz-Erickson, A. Parris, D. Tagtachian, M. Tier. 2022. Future climate resilience visions of New York City: 2100. Ecological Society of America. Oral presentation. Montreal, Quebec.
14. Robertson, L.J.^{^^}, R. Loehman, N. Molinari, **E.M. Cook**. 2022. Post-fire vegetation recover in Southern California chaparral. Ecological Society of America. Poster presentation. Montreal, Quebec.
15. Cherry, T.^{^^}, A. Romo^{^^}, E. Urofsky^{^^}, M. Maurer, **E.M. Cook**. 2022. Does size matter? Understanding how park size impacts perceived ecosystem services. Ecological Society of America. Poster presentation. Montreal, Quebec.
16. **Cook E.M.**, J. Ventrella, D. Iwaniec, L. Mannetti, T. McPhearson, T. Muñoz-Erickson, A. Parris, D. Tagtachian, M. Tier. Future climate resilience and adaptation visions of New York City. American Association of Geographers. Virtual oral presentation, March 2022.
17. Ventrella, J., **E.M. Cook**, A. Parris. T. McPhearson. 2022. Envisioning future climate resilience adaptation and mitigation strategies. American Association of Geographers. Virtual oral presentation, March 2022.
18. **Cook E.M.** and K. Schwarz. 2021. Navigating change in community-university partnerships: Maintaining vital connections during times of disruption and connection. Ecological Society of America. Oral presentation.
19. Elser, S., M. Berbés-Blázquez, **E.M. Cook**, N.B. Grimm, D.M. Iwaniec, Y. Kim, M. Matsler. 2021. Future ecosystem services: Insights from participatory scenario workshops from nine cities in the United States and Latin America. CAP LTER All Scientists Meeting and Poster Symposium.

20. Visnic, O.^{^^}, **E.M. Cook**, M. Maurer, L. Yoon., B. Mailloux, P. Culligan. 2021. Connection with more-than-human: Green Spaces during COVID-19. American Association of Geographers Annual meeting. April.
21. **Cook, E.M.**, T.A. Muñoz-Erickson, M. Berbés-Blázquez, N.B., Grimm, R. Hobbins, D.M. Iwaniec, L. Mannetti. 2020. A Social-Ecological-Technological Systems (SETS) approach to understanding social (S) values, visions, and community engagement approaches for urban resilience. Ecological Society of America Annual Meeting; Virtual, August 2020.
22. Wheeler, M.M., K.L. Larson, **E.M. Cook**, S.J. Hall. 2020. Change over time in managed residential vegetation: Resident actions promote dynamic plant communities. CAP LTER All Scientists Meeting and Poster Symposium.
23. Berbés-Blázquez, M., Y. Kim, N.B. Grimm, **E.M. Cook**, D.M. Iwaniec. 2020. Tell me what you want, what you really, really want: An analysis of practitioner-identified solutions from scenario workshops. Central Arizona Phoenix – Long Term Ecological Research, 22nd All Scientists Meeting, Tempe, AZ, USA.
24. Iwaniec, D.M., **E.M. Cook**, M. Berbés-Blázquez, N.B. Grimm. 2020. The coproduction of sustainable future scenarios. Central Arizona Phoenix – Long Term Ecological Research All Scientists Meeting, Tempe, AZ, USA.
25. **Cook, E.M.**, O. Barbosa. M. Berbés-Blázquez, N.B. Grimm, D.M. Iwaniec, L. Mannetti, T. McPhearson, T. Muñoz-Erickson. 2019. Transformative co-produced visions for future urban sustainability and resilience. Transformations conference. Santiago Chile, 16-18 October. Oral Presentation/Panel.
26. **Cook, E.M.**, M. Berbés-Blázquez, R. Carrero, N.B. Grimm, D.M. Iwaniec, T. McPhearson, P. Mendez-Lazaro, T. Muñoz-Erickson, A. Mustafa, L. Ortiz, J. Santos-Hernandez. 2019. The future of San Juan, Puerto Rico: Modeling bottom-up land use futures scenarios with diverse stakeholders. Ecological Society of America Annual Meeting, Louisville, KY, USA. Oral Presentation.
27. **Cook, E.M.**, P.E. Padgett, S.J. Hall. 2019. Long-term community composition shift of desert annual vegetation correlated to co-occurring pollutants in urban ecological airshed. CAP LTER All Scientists Meeting and Poster Symposium.
28. **Cook, E.M.**, M. Berbés-Blázquez, M. Davidson, N.B. Grimm, D.M. Iwaniec, T. McPhearson, T. Muñoz-Erickson. 2018. Co-development of positive visions for future urban sustainability and resilience. 10-12 December. Reframing Urban Resilience Implementation: Aligning Sustainability and Resilience Conference. Barcelona Spain. Oral presentation.
29. Muñoz-Erickson, T.A., **E.M. Cook**[^], R. Hobbins, M. Johnson, D.M. Iwaniec, L. Campbell. 2018. Knowledge systems for Urban Stewardship: Exploring the role of civic knowledge systems in environmental and sustainability governance. 10-14 April. American Association of Geographers (AAG). New Orleans, LA. Oral presentation. [^]Presenter at AAG
30. **Cook, E.M.**, D.M. Iwaniec, N.B. Grimm, O. Barbosa. 2018. Research-practice criteria for urban sustainability transformations. 10-14 April. American Association of Geographers. New Orleans, LA. Oral presentation.
31. **Cook, E.M.**, O. Barbosa, M. Berbés-Blázquez, C. Cheng, M. Davidson, N.B. Grimm, D.M. Iwaniec, T. McPhearson. 2017 November 7-11. A social-ecological-technological systems (SETS) approach to urban ecosystem services. Future Earth. PECS II Place-based Transdisciplinary Research for Global Sustainability on Ecosystem Change and Society. Oaxaca City, Mexico. Oral Presentation.

32. **Cook, E.M.**, D.M. Iwaniec, N.B. Grimm, O. Barbosa. 2017 August 21-23. Framing sustainability transformational change as more than just big change. Stockholm Resilience Conference. Stockholm, Sweden. Oral Presentation.
33. **Cook, E.M.**, D.M. Iwaniec, J Sauer, NB Grimm, O Barbosa. 2017 August 6-11. Future urban sustainability in Valdivia, Chile: Assessing social-ecological-technological scenarios with ecosystem services. Ecological Society of America Annual Meeting, Portland, OR, USA. Oral presentation.
34. **Cook, E.M.**, M. Berbés-Blázquez, M.J. Davidson, N.B. Grimm, D.M. Iwaniec, T. McPhearson, T. Muñoz-Erickson. 2017 July 7-8. Urban Resilience to Extreme Events participatory future scenarios: 2080 in Harlem, San Juan, and Valdivia. National Science Foundation Sustainability Research Network Cross-site meeting, Washington DC, USA. Poster presentation.
35. **Cook, E.M.**, O. Barbosa, M.J. Davidson, N.B. Grimm, D.M. Iwaniec. 2017. Envisioning future urban sustainability and resilience through co-developed social-ecological-technological scenarios. 5-9 April. American Association of Geographers. Boston, MA.
36. **Cook, E.M.**, O. Barbosa. 2016. Imaginando el futuro de los humedales de Valdivia ¿Como los valoramos y los protegemos? 08-10 November. Foro de la Sostenibilidad en Llanquihue. Llanquihue, Chile.
37. **Cook, E.M.**, O. Barbosa. 2016. Un enfoque de los sistemas socio-ecológico-tecnológicos para el estudio de los eventos climáticos extremos en las ciudades: el caso de Valdivia, Chile. Sociedad Ecología de Chile y Sociedad Ecología de Argentina Bi-Nacional Congreso. 19-22 September. Puerto Iguazu, Argentina.
38. Iwaniec, D.M., **E.M. Cook**, M.J Davidson, N.B. Grimm. 2016. Co-developing urban sustainability and resilience scenarios. Ecological Society of America annual meeting. August. Fort Lauderdale, FL.
39. Barbosa, O., **E.M. Cook**, L Castañeda, K. Godoy, M. Marquez, R. Sanchez. 2016. Urban or rural, Does it make any difference when it comes to being effective for conservation? British Ecological Society Annual meeting. March. London, UK.
40. **Cook, E.M.**, O. Barbosa, 2016. Maximizing urban services in Valdivia, Chile with green infrastructure. CAP LTER symposium poster, 15 January.
41. **Cook, E.M.**, A.R. Berkowitz, F. Day, C. Hart, T. Mourad, D. Nidzgorski, J. Ramos, E. Sparrow. 2015. Fostering a diverse LTER Network: Strategies for diversity planning and mentoring. LTER All scientists meeting. 10-13 September. Estes Park, CO.
42. Davidson, M.J., D.M. Iwaniec, **E.M. Cook**, N.B. Grimm. 2015. Central Arizona Phoenix LTER and society: co-development of sustainable future scenarios. LTER All scientists meeting. 10-13 September. Estes Park, CO.
43. **Cook EM**, Iwaniec DM, Grimm NB, Barbosa O. 2015. Maximizing urban services provided by green and grey infrastructure to increase future urban sustainability. Seminario internacional de ecología urbana: Aportes interdisciplinarios para la sustentabilidad urbana. CEDEUS (Centro de Desarrollo Urbano Sustentable). 27 -28 August. Santiago, Chile.
44. Iwaniec, D.M., **E.M. Cook**, M.J. Davidson, N.B. Grimm. 2015. Sustainable future scenarios for the Central Arizona-Phoenix region. Ecological Society of America annual meeting. 10-14 August. Baltimore, MD.
45. **Cook, E.M.**, D.M. Iwaniec, N.B. Grimm, O. Barbosa. 2015. Maximizing urban services provided by green and grey infrastructure to increase future urban sustainability. Ecological Society of America annual meeting. 10-14 August. Baltimore, MD.

46. **Cook, E.M.**, S.J. Hall. 2014. Spatial distribution of ecologically relevant air pollutants in Sonoran Desert. CAP LTER annual poster symposium. 17 January. Tempe, AZ
47. **Cook, E.M.**, S.J. Hall. 2013. Spatial distribution of ecologically relevant compounds in Sonoran Desert protected areas surrounding Phoenix, Arizona. National Atmospheric Deposition Program annual scientific symposium. 6-11 October. Park City, UT.
48. **Cook, E.M.**, S.J. Hall. 2013 The net effect of urban air pollution on ecosystems. CAP LTER NSF site review, 21 September. Tempe, AZ.
49. **Cook, E.M.**, P.E. Padgett, S.J. Hall. 2013. Native and non-native herbaceous species affected differently by urban air quality. Ecological Society of America annual meeting. 4-9 August. Minneapolis, MN.
50. **Cook, E.M.**, P.E. Padgett, S.J. Hall. 2013. Effects of co-occurring urban atmospheric compounds on desert herbaceous plants. CAP LTER annual poster symposium. 13 January. Tempe, AZ.
51. **Cook, E.M.**, S.J. Hall, R. Sponseller, D.P. Huber, S.R. Earl, N.B. Grimm. 2012. Atmospheric nitrogen deposition in Phoenix, AZ is lower than expected: Findings from a methods comparison. *Invited oral presentation* at National Atmospheric Deposition Program annual scientific symposium. 2-5 October. Portland, ME.
52. **Cook, E.M.**, S.J. Hall. 2012. Detecting the sensitivity of desert herbaceous plant responses to co-occurring atmospheric compounds. LTER All scientists meeting. 10-13 September. Estes Park, CO.
53. **Cook, E.M.**, S.J. Hall, R. Sponseller, D.P. Huber, S.R. Earl, N.B. Grimm. 2012. Atmospheric nitrogen deposition in Phoenix, AZ is lower than expected: Findings from a methods comparison. CAP LTER annual poster symposium. 13 January. Tempe, AZ.
54. Schmoker, M.K.^{^^}, **E.M. Cook**, S.L. Collins, S.J. Hall. 2011. Bottom-up vs. top-down regulation of herbaceous annual primary production in an urban arid ecosystem. Ecological Society of America annual meeting. 7-12 August. Austin, TX
55. **Cook, E.M.**, S.J. Hall, R. Sponseller, D.P. Huber, S.R. Earl, N.B. Grimm. 2011. Atmospheric nitrogen deposition in arid Phoenix, AZ: A comparison of methods. Ecological Society of America annual meeting. 7-12 August. Austin, TX
56. **Cook, E.M.**, R.L. Hale, D.M. Iwaniec, J.R. Corman, X. Dong, G. Metson, J. Sayles. 2010. Urban Stoichiometry: An elemental approach to understanding human-environment interactions. CAP LTER annual poster symposium. 14 January. Tempe, AZ.
57. Toke, N.A., K. Darby, **E.M. Cook**, C. Mead, J. Brian, T. Benn, S. Fisher, C.G. Boone, S. Semken. 2009. Pedagogy in interdisciplinary higher education: an investigation of faculty and student perspectives. Geological Society of America Education annual meeting. 18 October. Portland, OR.
58. **Cook, E.M.**, K.L. Larson, S.J. Hall, S.A. Strawhacker. 2009. An interdisciplinary, multi-scalar framework for linking social and ecological dynamics of residential landscapes: A case study in Phoenix Arizona. LTER All scientists meeting. 13-17 September. Estes Park, CO.
59. **Cook, E.M.**, S.A. Strawhacker, K.L. Larson, S.J. Hall. 2009. Values and other social drivers of the management and ecological properties of residential landscapes in Phoenix, Arizona. *Invited oral presentation* at Ecological Society of America annual meeting. 3-7 August. Albuquerque, NM.
60. Salem, M.^{^^}, **E.M. Cook**, K.L., Larson, S.J. Hall. 2009. Effects of landscape cover on microclimate in urban residential landscapes of the Phoenix metropolitan area. Association of American Geographers annual meeting. March. Las Vegas, NV.

61. **Cook, E.M.**, S.J. Hall, K.L. Larson. 2008. A synthesis of the ecological properties and processes of urban residential landscapes. Ecological Society of America annual meeting. 3-8 August. Milwaukee, WI.
62. **Cook, E.M.**, S.J. Hall, K.L. Larson. 2008. Residential Landscapes: Synthesis of the literature and preliminary survey results. Graduates in Life, Earth and Social Sciences annual symposium. 1 February. Tempe, AZ.
63. **Cook, E.M.**, S.J. Hall, K.L. Larson. 2008. Residential Landscapes: Synthesis of the literature and preliminary survey results. CAP LTER annual poster symposium. 10 January. Tempe, AZ.
64. **Cook, E.M.**, M.L. Cadenasso, S.T.A. Pickett. 2006. Canopy structure and soil characteristics in riparian-upland savanna boundaries in Kruger National Park, South Africa. Ecological Society of America annual meeting. 6-11 August. Memphis, TN.
65. **Cook, E.M.**, M.L. Cadenasso, S.T.A. Pickett. 2006. Soil carbon and nitrogen contents across contrasting riparian and upland sites in the Shingwedzi drainage. Kruger National Park annual science networking meeting. 13-17 March. Kruger National Park, South Africa.

Reports and Other Work

1. Petriello, M., J. Aini, Y. Amepou, K. Anthony, E. Avrami, O. Badaki, K. Bisson, M.E. Blair, B. Bostick, S. Buffington, **E.M. Cook**, K. Guild Douglass, P. Gallay, S. Goldmark, S. King, C. López, A. Low, E. MacLeod, A. Mawyer, N. Mukherjee, P.H. Smith, A. Stronza, L. St. George, J. Sulik, A. Subramaniam, M. Supuma, C. Surman, R. Talbert, P. West, A. Whiting, S. Whiting, J. Winters, C. Zappa, M. Zurba. **2024**. Good Practices in the Co-Production of Knowledge: Working Well Together in Environmental Change Research; <https://academiccommons.columbia.edu/doi/10.7916/1h4j-2204>
2. Brenner, L., B.J. Mailloux, S. Rodriguez, T. Maenza-Gmelch, **E.M. Cook**, F. Koli, C. Marizzi, R.J. Frawley, B. Saad, M. Stute. **2023**. SPOTLIGHT: Supporting the Next Generation of Leaders in the Geosciences: Barnard's Environmental Science Pathways Scholar Program. *Oceanography*. <https://doi.org/10.5670/oceanog.2024.101>
3. **Cook, E.M.**, J. Ventrella, T. McPhearson, A. Parris, M. Tier, C. Green, D. Iwaniec, L. Mannetti, T. Muñoz-Erickson, D. Tagtachian. **2022**. New York City Climate Adaptation Scenarios for 2100: Exploring alternative, positive visions for a resilient future. <https://doi.org/10.5281/zenodo.7319637>
4. NYC Stormwater Resiliency Plan and Flood Maps, contributor. 2021. <https://www1.nyc.gov/assets/orr/pdf/publications/stormwater-resiliency-plan.pdf>
5. Maurer, M. **E.M. Cook**, P. Culligan, B. Mailloux. 2020, December 17. Do yourself a favor: Get outside more this winter. *NY Daily News* Op-Ed.
6. Urban Resilience to Extreme Events Data Visualization platform, contributor, 2018-present. <http://urex.urbansystemslab.com/>
7. Urban Resilience to Extreme Events Workshop reports series, contributor. 2018-2020. <https://sustainability-innovation.asu.edu/urbanresilience/reports/>
8. **Cook, E.M.** 2013. Foraging in the city. Arizona State University's Ask a Biologist PLOSable popular science article. AskABiologist.asu.edu/plosable/foraging-urban-birds

Works in Progress

1. **Cook, E.M.**, F.A. Montalto, N. Adhikari, N. Auyeung, M. Conte, Y., Dzyuban, H. Kaufman, M. Larson, P.M. Marcotullio, T. McPhearson, A. H. Payab, R. Pirani, B. Rosenzweig, E. Sanderson, M.L. Treglia, L. Wener. **In Review**. NPCC5: Natural and Nature-based Solutions in New York City. ***Proceedings of the New York Academy of Sciences***.

2. Ventrella, J., **E.M. Cook**. In Review. Past, Present, and Future Climate Sustainability Planning in New York City. PlaNYC at 20.
3. Berbés-Blázquez, M., **E.M. Cook**, N.B. Grimm, D.M. Iwaniec, Y. Kim, L.M. Mannetti, T.A. Muñoz-Erickson, O. Barbosa, P.M. Groffman, T. McPhearson, P.A. Méndez-Lázaro, A. Robles-Morua, J. Santos-Hernández, A. Schueftan, V. Shandas, T. Troxler. *In Review*. Imagining urban futures in the 21st Century: Social-ecological-technological visions across US and Latin American cities. ***Global Environmental Change***.
4. Iwaniec, D.M., N.B. Grimm, M. Berbés-Blázquez, **E.M. Cook**, T.A. Muñoz-Erickson, and the UREx City Scenarios Team. *In Review*. Insights from co-produced scenarios toward urban sustainability transformations. ***Proceedings of the National Academy of Sciences***.
5. **Cook, E.M.**, J. Ventrella, T. McPhearson, A. Parris, M. Tier, D. Iwaniec, L. Mannetti, T. Muñoz-Erickson, D. Tagtachian. *In Revision*. Identifying Leverage Points for Transformative Climate Adaptation through Anticipatory Visioning. ***Ambio***.

Teaching and Advising

Courses Taught

Barnard College-Columbia University (undergraduate and graduate courses; 2019-present)

Environmental Data Analysis (EESC BC3017) Fall 2019, Fall 2020, Fall 2021, Fall 2023, Fall 2024

Urban Ecosystems (EESC BC3027): Spring 2021, Spring 2022, Spring 2024, Spring 2025

Environmental Science Senior Seminar (EESC BC3800, BC3801; EESC UN3901): Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2023, Spring 2024, Fall 2024, Spring 2025

The New School (undergraduate courses; 2017-2019)

Urban Ecology (UENV 2400): Fall 2017, Spring 2018, Fall 2018

Bottom-up Change for Climate Justice (UENV 3710/UURB 3710): Fall 2018

Guest Lectures (undergraduate and graduate courses; 2009-present)

Pace University (*Environmental Studies*, undergraduate course; April 2018, April 2022, April 2024)

University of California Los Angeles (*Community Planning*, graduate course Spring 2021)

Barnard College (*Change and Climate Change*, First Year Seminar Fall 2020; Spring 2022)

The New School (*Urban Resilience*, undergraduate and graduate course; Spring 2023, Spring 2022, Spring 2021, Spring 2020, Spring 2019; *Green Roof Ecology*, undergraduate course; Spring 2019, Fall 2018)

Portland State University (*Environmental Planning*, graduate seminar; November 2018)

Arizona State University (*Sustainable Ecosystems*; March 2018, Jan 2017, April 2016; *Society and Sustainability*, undergraduate courses; 2009)

Invited Talks/Lectures

1. **Cook, E.M.** 2026. Presenter. HRF Social Science Grantee annual meeting. New York, NY. 24 March 2026.
2. **Cook, E.M.** 2026. Foresight for urban climate action. Invited panelist/presenter. Workshop, University of Waterloo. 1-4 March 2026.
3. **Cook, E.M.** 2025. Keynote panel member. ESSA Symposium, Arizona State University, Phoenix, AZ. 7 November 2025.
4. **Cook, E.M.** 2024. A systems approach to navigating uncertainty and future resilience in New York City. Invited Seminar. Cary Institute of Ecosystem Studies. Invited Seminar Speaker. 11 January 2024.
5. **Cook, E.M.** 2022. *Sandy+10*. 2100 in New York City: Climate Adaptation Scenarios, Symposium Speaker. 27 October 2022.
6. **Cook, E.M.** 2022. Navigating complexity of urban resilience. UC Merced, Invited Seminar Speaker. 8 September 2022.

7. **Cook, E.M.** 2021. Transforming future urban resilience with a systems approach and positive visioning. Columbia University, Ecology, Evolution, and Environmental Biology, 9 November 2021
8. **Cook, E.M.**, D.M. Iwaniec, M. Matsler, B. Rosenzweig. 2021. Lessons Learned about Convergence through Future Visioning in Baltimore. Baltimore Ecosystem Study Quarterly meeting; Virtual, 21 April 2021.
9. **Cook, E.M.** 2021. Identifying global knowledge gaps on nature-based solutions for urban resilience. San Juan ULTRA Symposium; Virtual, 8 April 2021
10. **Cook, E.M.** 2021. Building urban resilience with nature-based solutions and a global network of networks. The Nature of Cities Festival; Conference Keynote lecture, Virtual, 22-26 February 2021.
11. **Cook, E.M.** 2020. Invited Seminar: "A social-ecological-technological systems framing for future resilience in cities" Purdue University FNR Seminar Series. 20 November. Virtual due to COVID-19.
12. **Cook, E.M.** 2020. Invited Seminar: "Envisioning positive futures to address our most pressing challenges in urban systems" University of Massachusetts Amherst ECo Seminar Series. 13 November. Virtual due to COVID-19.

Service to Profession

Elected Member, New York Panel on Climate Change (NPCC5); Co-Lead, Natural and Nature-based Systems Chapter (2024 – present)

Abstract review, *Ecological Society of America (ESA) annual conference* (2022-present)

Co-Chair, Justice, Equity, Diversity, and Inclusion (JEDI) Committee, NSF Central Arizona Phoenix Long Term Ecological Research program CAP LTER (2020 – present)

Mentor, Ecological Society of America SEEDS (2015 – present) Strategies for Ecology Education and Diversity in Science mentoring program

NSF Ad hoc reviewer (June 2026)

NSF On-Site Project Review Panel, LTER grant review panel (April 2024)

NSF Review Panel, Dynamic Integrated Socio-Environmental Systems grant review panel (February 2023)

Member, New York Panel on Climate Change (NPCC4) (2021-2024) Futures and Transitions working group member

Elected Chair, Communication and Engagement Section Ecological Society of America (2020-2023)

Student Poster/Talk Judge, *Ecological Society of America (ESA) annual conference* (2018-2025), *Central Arizona-Phoenix Long Term Ecological Research* (2015-2025)

Presenter/Participant, Future Cities Podcast: Scenario Production for Resilient Urban Futures (May 2021 episode); Nature-based solutions and you (Sept 2021 episode)

Member, Diversity Committee, NSF funded Long-Term Ecological Research program (2014 – 2021)

Peer-Reviewer, Academic Journals (2011 – present) *Ambio*, *Cities and The Environment* (CATES), *Computers & Urban Systems*, *Earth's Future*, *Ecological Applications*, *Ecological Indicators*, *Ecology and Evolution*, *Ecology and Society*, *Ecosphere*, *Ecosystem Services*, *Ecosystems and People*, *Environmental Management*, *Environmental Planning and Management*, *Environmental Planning B*, *Environmental Science and Policy*, *Frontiers in Sustainable Cities*, *Journal of Arid Environments*, *Journal of Engineering and Technological Studies*, *Journal of Industrial Ecology*, *Land Use Policy*, *Landscape and Urban Planning*, *Nature-based Solutions*, *Nature Sustainability*, *npj Urban Sustainability*, *Proceedings of the National Academy of Sciences*, *Regional Environmental Change*, *S.A.P.I.E.N.S.*, *Society and Natural Resources*, *Sustainability*, *Sustainability Science*, *Sustainable Cities and Society*, *Trees Forests and People*, *Urban Climate*, *Urban Ecosystems*, *Urban Forestry and Urban Greening*, *Urban Governance*, *Urban Sustainability*

Radio presentation / Interview (2017). Desde la Ventana, Universidad Austral de Chile. Interview about urban response to climate change (https://cl.ivoox.com/es/cap-71-18-5-17-entrevista-a-ecologas-uach-sobre-cambio-audios-mp3_rf_18814302_1.html)

Grant Review Panel Member (2010, 2011) CAP LTER graduate grants

Steering Committee Member (2010 – 2011) *Graduates in Integrative Society and Environment Research*, Arizona State University

Co-Representative to Graduate Student Ecology, Evolution and Biology Group (2008 – 2009) School of Life Sciences, Arizona State University

Professionally-related Community Service

Member of the Conservation Advisory Committee (2026-present) Amenia, New York

Member of the Science Advisory Board (2026-present) Wildr, Plan it Wild

Member of the Board of Directors, Community Non-profit (2012 – 2014) Valley Permaculture Alliance, non-profit promoting sustainability and stewardship through permaculture practices and education in metropolitan Phoenix, AZ

Outreach Volunteer, Ask a Biologist (2013 – 2014) Writing and editing for online biology resource for K-12 students and educators, askabiologist.asu.edu

Outreach Volunteer, Science Club for Girls (2014) Math and science afterschool program, Boston Public Schools, Boston, MA

Outreach Volunteer, Hands on Science camp (2013) Science camp for middle school girls sponsored by Association for Women in Science

Current Membership in Professional Societies

Ecological Society of America (ESA)

Association of American Geographers (AAG)

Society for Social-Ecological Systems (SocSES)