

Lauren Cook, Ph.D, EIT

Curriculum Vitae



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EDUCATION

- 2014 - 2018 **Doctor of Philosophy**
ADVISORS: CONSTANTINE SAMARAS, JEANNE M. VANBRIESEN
Civil & Environmental Engineering
Carnegie Mellon University
- 2011 - 2012 **Master of Industrial Engineering**
Energy and Economics Program
Institute Français du Pétrole (IFP School)
- 2006 - 2010 **Bachelor of Science**
Civil & Environmental Eng., Water Resources
University of Maryland

EMPLOYMENT HISTORY

CURRENT, SINCE APRIL 2021 (DUEBENDORF, SWITZERLAND)

Dept of Urban Water Management
Swiss Federal Instit. of Aquatic Science & Tech. (Eawag)
Group Leader

On-going **interdisciplinary collaborations** with ecologists, biologists, landscape architects, and social scientists to improve multifunctionality of green stormwater infrastructure

JAN 2019–MAR 2021 (DUEBENDORF, SWITZERLAND)

Dept of Urban Water Management, Eawag
Post-doctoral Fellow

Transdisciplinary collaboration with ETH Zürich and industry specialists to gain expertise for experimental design on solar panels, green roof vegetation, energy balance modelling

AUG 2014–DEC 2018 (PITTSBURGH, USA)

Dept of Civil & Environmental Eng., Carnegie Mellon Univ.
Doctoral Researcher

Visiting researcher at the National Center for Atmospheric Science
Interdisciplinary collaboration with the RAND corporation

AUG 2012–AUG 2014 (NEWARK, DE, USA)

Air Liquide Industrial Gases, Research & Development
Research Associate

Oral and written communication results of supply chain optimization model to a non-expert and international audience

MAY 2010–AUG 2010 (COLLEGE PARK, MD, USA)

Dept of Civil & Environmental Eng., Univ. of Maryland
Water Resources Research Assistant

Supervisor: Professor Emeritus Richard McCuen

MAIN RESEARCH AREAS

Blue-green stormwater infrastructure; Climate resilience; Urban sustainability; Performance based design; Multifunctionality

AWARDED FUNDING AS PI

- 2022 **SNSF Synergia Funding, 411,095 CHF**
No. CRSII5 213584
PAPPUS: Plants and People in Urban Systems
Primary Investigator
- 2021 **SNSF Project Funding, 583'864 CHF**
No. 20002_204790
BETTER: Blending design and decision-making for multi-functional blue-green infrastructure
Primary Investigator
- 2021 **Blue-Green Biodiversity (BGB), 520'000 CHF**
Joint Eawag-WSL Funding Initiative
Blue-Green Stormwater Infrastructure Meets Biodiversity in the City [Benefit]
Primary Investigator
- 2019 **Eawag Postdoctoral Fellowship, 2-year funding**
Quantifying the co-benefits of distributed stormwater and energy infrastructure
Post-doctoral researcher

FELLOWSHIPS & AWARDS

- 2018 **Postdoctoral Fellowship Recipient**
Swiss Fed. Instit. Aquatic Science & Tech. (Eawag)
- 2018 **3rd Place Student Presentation**
Universities Council on Water Resources Conference
- 2016 **Best Student Poster Award**
8th Annual Sustainability Conference, Pittsburgh
- 2016 **Outstanding Teaching Assistant Award**
Carnegie Mellon Civil & Environ. Eng.
- 2016 - 2017 **John and Claire Bertucci Fellowship**
Carnegie Mellon Civil & Environ. Eng.
- 2014 **Carnegie Mellon Deans Fellowship**
Carnegie Mellon Civil & Environ. Eng.
- 2012 - 2013 **Tuck Foundation Scholarship**
Institute Français du Pétrole (IFP School)

COMPUTER & COMMUNICATION SKILLS

LANGUAGES	English (Native), French (Bilingual), German (Level B2), Spanish (Limited Working Proficiency), Mandarin (Basic)	SOFTWARE	SWMM, AutoCAD, Microstation, ArcGIS, Tableau, HECRAS, Microsoft Office, L ^A T _E X
COMPUTER LANGUAGES	Python, MATLAB, Visual Basic GAMS, LINGO, Command Line	MODELLING EXPERTISE	Hydrologic simulation, Linear programming, Statistics & uncertainty

TEACHING ACTIVITIES

Student Supervision

Doctoral Students

Student	Department	University	Project Title	Duration
Yuxin Yin	Env. Engineering	EPFL	Evaluating the influence on microclimate of plant traits and assemblages in urban green space under current and future conditions	2023–2027
Giovan Battista Cavadini	Env. Engineering	ETH Zurich	Integrating water, heat and biodiversity performance of blue-green infrastructure in current and future Climate	2022–2026
Kilian Perrelet	Ecology	Univ. Zurich	Using eDNA to reveal aquatic and terrestrial community dynamics in the urban matrix	2021–2025
Mayra Rodriguez	QUEX Institute	U. Exeter	Spatial interactions between green infrastructure, shallow groundwater, and combined sewers systems influence urban drainage system resilience	2021 – 2022

MSc/BSc Students

Student	Degree	University	Project Title	Duration
Ruixin Lu	MSc Thesis	ETH Zurich	Optimizing green roof substrates: A multi-criteria decision analysis approach to select the ideal recycled substrate	2023 - 2024
Ramon Luedi	BSc Thesis	ETH Zurich	Reuse of ground soil for green roof substrate – investigation of ideal properties for water retention	2023 - 2024
Marvin Trottmann	MSc Project	ETH Zurich	Evaluating the initial conditions of an experimental setup of photovoltaic green roofs	2023
Lina Hassoun	MSc Thesis	ETH Zurich	Integrating green and cool roof choices into rooftop solar energy modeling across varied climates and future scenarios	2023
Ruixin Lu	MSc Project	ETH Zurich	The effect of vegetation type on multifunctional green roof performance	2023
Taiqi Lian	MSc Thesis	ETH Zurich	Performance of stochastic rainfall generators with hydrologic simulation models	2022
Bettina Maurer	MSc Thesis	ETH Zurich	Decision analysis of green and cool roofs	2021–2022
Dawar Muktar Qureshi	MSc Thesis	TU Dresden	Adequacy of urban water Infrastructure under climate change	2021 – 2022
Giovan Battista Cavadini	MSc Thesis	ETH Zurich	Evaluating potential efficiency gains in rooftop solar panels placed on green roofs	2019–2020
Ines Malot	MSc Project	ETH Zurich Ecole de Mines de Paris	Does vegetation influence the hydrologic performance of green roofs?	2020

Research Staff

Name	Role	Project	Funding	Duration
Oceane Inglard	Intern	Benefit	SWW Department	2024
Trang Nguyen	Post-doctoral researcher	BETTER	SNF Project	2022–2024
Andreas Dietzel	Post-doctoral researcher	Benefit	BGB Initiative	2021–2024
Noemi Buri	Research Assistant	PAPPUS	SNF Synergia	2022 – 2024
Louise Gogibu	Intern	Benefit	SWW Department	2023
Simon Sennhauser	Civil Servant	Benefit	SWW Department	2023
Ramun Bar	Civil Servant	Living Lab Bern	SWW Department	2022
Patrick Stettler	Civil Servant/ Research Assistant	Future Rainfall	SWW Department	2021–2022

Teaching Assistant Experience

JAN 2018–MAY 2018 (PITTSBURGH, USA)

Dept of Civil & Environmental Engineering, Carnegie Mellon University

Teaching Assistant, Climate Change Adaptation, Prof. Constantine Samaras 🐦 @csamaras

JAN 2015–2017 (3 SEMESTERS) (PITTSBURGH, USA)

Dept of Civil & Environmental Engineering, Carnegie Mellon University

Teaching Assistant, Water Resource System Engineering, Prof. and President Emeritus Jared Cobon

Presentation *Tackling Diverse Student Backgrounds Before, During, and After Class* at the 2016 Teaching & Learning Summit, CMU

MAY 2010–DEC 2010 (PITTSBURGH, USA)

Dept of Civil & Environmental Engineering, University of Maryland

Course Assistant, Simulation & Design of Experiments, Prof. Steven Gabriel

Guest Lectures

University	Department	Course	Hours	Years
Villanova Univ.	Civil & Environmental Eng.	Surface Water Hydrology	3	2023
ETH Zurich	Integrated Building Systems	Indoor Environment, Resources & Safety (066-0420-00L)	9	2020–2022
Villanova Univ.	Civil & Environmental Eng.	Data Analysis for Engineers	3	2021
Marmara Univ.	Civil & Environmental Eng.	Special Topics in Environmental Engineering	1	2021
Carnegie Mellon	Civil & Environmental Eng.	Intro to Civil & Enviro. Eng. (12-100)	3	2017, 2018
Carnegie Mellon	Civil & Environmental Eng.	Climate Change Adaptation (12-749)	2	2016, 2018
Carnegie Mellon	Civil & Environmental Eng.	Intro to Sustainable Eng. (12-712)	3	2016, 2017
Carnegie Mellon	Information Systems	IT & Environmental Sustainability (67-353)	1	2017
Carnegie Mellon	Civil & Environmental Eng.	Water Resource Systems Engineering (12-657)	20	2015–2017

Summer Schools

AUGUST 2023 (DAVOS, SWITZERLAND)

Blue-Green Summer School

Lecture, Multifunctional blue-green infrastructure in cities

1.5 hour class given to primarily ecology MSc and PhD students, including group work to design a multifunctional blue-green infrastructure site in a city

Training and Leadership

2019 **Leadership in Academia Training**

Fix the Leaky Pipeline Program, ETH Zürich

2017 **Future Faculty Program Completion**

Eberly Center for Teaching Excellence, Carnegie Mellon University

2016 **Bias Busters Training**

College of Engineering, Carnegie Mellon University

OUTREACH, SERVICE, AND KNOWLEDGE TRANSFER

Committees and Professional Memberships

2021–	Advisory Board , Fachplan Regenwasser im Siedlungsraum, Entsorgung + Recycling, Stadt Zurich
2021–	Leadership team member , European Infrastructure and Climate Network (ICNet Europe)
2019–2021	Board Member , Eawag Postdoctoral Association (EPSA), <i>Eawag</i>
2017–2018	Advisory Board , RAND Corporation Pittsburgh Pilot Study on Resilient Stormwater Infrastructure
2016–2021	Member , Infrastructure and Climate Network (ICNet)
2016–2019	Member , American Geophysical Union (AGU)
2016–2018	Board Member , Environmental & Water Resources Institute (EWRI) Graduate Student Chapter, <i>Carnegie Mellon</i>
2015–2018	Member , American Society of Civil Engineers (ASCE)
2014–2016	Civil & Environmental Engineering Department Representative , Graduate Student Association, <i>Carnegie Mellon</i>

Organization of Conferences and Workshops

- 2023-2025 **Workshop Organiser**, VSA-Wassertage 2025
2017 **Conference Organiser**, Teaching and Learning Summit
Carnegie Mellon University, Pittsburgh, USA
2015–2016 **Co Program Organiser**, SUCCEED Summer Prog. for High School Students and Teachers
Carnegie Mellon University, Pittsburgh, USA

Conference Session Chairing

- JUNE 2024 **Session Co-Chair**, Climate change impacts and projections
International Conference on Urban Drainage, Delft, Netherlands
JUNE 2024 **Session Convener and Chair**, Enhancing Urban Biodiversity through Blue-Green Infrastructure: A Multidisciplinary Approach
World Biodiversity Forum, Davos, Switzerland

Invited Seminars and Presentations

- MARCH 2022 **Seminar**, *Adapting urban areas to a more extreme climate using blue-green infrastructure*
Colloquium in Climatology, Climate Impact and Remote Sensing, Geographics Institute, University of Bern, Bern, CH
NOVEMBER 2021 **Conference**, *Planning urban drainage systems for climate change*
Fachtagung: Regenwasser und Abwasser im Klimawandel, Zurich, CH
OCTOBER 2021 **Conference**, *Adapting to more extreme precipitation in Switzerland: Where, why, how?*
AQUA 360: Le Congres Suisse Sur L'eau de la SSIGE et du VSA, Bellinzona, CH
AUGUST 2021 **Workshop presentation**, *Who is responsible for urban heat mitigation through green infrastructure?*
European Infrastructure and Climate Network Seminar Series, Online ([Link to slides](#))
MARCH 2021 **Seminar**, *Evaluating the performance of vegetated and reflective roofs to cool cities and increase solar panel yield*
Environmental & Water Resources Institute, Carnegie Mellon Graduate Student Chapter, Pittsburgh, PA, USA / Online
JULY 2017 **Lunch Seminar**, *Incorporating NA-CORDEX Output into Intensity Duration Frequency Curves*
US National Center for Atmospheric Research (NCAR), Boulder, CO, USA

Public Engagement

MAY 2024 (ZURICH, CH)
Cafe Scientifique
Speaker, *"Multifunctional blue-green infrastructure in cities – a paradox of choice?"*

Informal presentation open to the general public where anyone can participate in the discussion of current scientific issues [Link to website](#)

SEPT 2023 (DUBENDORF, CH)
2023 Eawag InfoTag: Wasserforschung für nachhaltige Entwicklung, EMPA Dubendorf Campus
Speaker, *"Werkzeuge für klimaresiliente Städte"*

Spoke to stakeholders in the water sector as part of Eawag's annual outreach to the local community [Link to program](#)

MARCH 2021 (ZURICH, CH / ONLINE)
2020-21 Graduation Ceremony, Environmental Engineering, ETH University
Keynote Speaker, *"Keep calm: This is only your first step"*

Spoke to the 2019 and 2020 graduating classes from ETH Environmental Engineering about my career path, alluding to uncertainties, choices and future steps relevant for young engineers [Link to speech](#)

OCT 2015–APR 2016 (CENTRAL VALLEY, PA, USA)
Scientist in the Classroom Pilot, National Center for Science Education
Scientist in Environmental Engineering

An initiative to engage high school students in controversial topics like climate change and coal plant air and water pollution

Peer-Review

- REVIEW FOR JOURNALS Climatic Change; J. Infrastructure Systems; Sustainable and Resilient Infrastructure; Energy Efficiency; International J. Climatology; Frontiers in Water; Urban Water Journal; Blue-Green Systems; J. Hydrology; Environmental Challenges; J. Sustainable Water Inf.; Building and Environment; Water Resources Research; Environmental Science and Pollution Research
REVIEW FOR CONFERENCES World Environmental and Water Resources Congress
REVIEW FOR PROPOSALS US-Israel Bi-National Agricultural Research and Development Fund

PUBLICATIONS

Peer-Reviewed (21, citations: 479, h-index: 11)

1. Cavadini, G.B., Rodriguez, M., Nguyen, T., and **L. Cook** (2024). Can blue-green infrastructure counteract the effects of climate change on combined sewer overflows? Study of a swiss catchment. *Environmental Research Letters*. doi:10.1088/1748-9326/ad6462
2. Cavadini, G.B., Rodriguez, M., and **L. Cook** (2024). Connecting blue-green infrastructure elements to reduce combined sewer overflows. *J. Environmental Management*. 365, 121465 (15 pp.), doi:10.1016/j.jenvman.2024.121465
3. Perrelet, K., Moretti, M., Dietzel, A., Altermatt, F., and **L. Cook** (2024). Engineering blue-green infrastructure for and with biodiversity in cities. *npj Urban Sustainability*. 4(1), 27, doi:10.1038/s42949-024-00163-y
4. Dietzel, A., Moretti, M., and **L. Cook** (2024). Shrinkage-based Bayesian variable selection for species distribution modelling in complex environments: an application to urban biodiversity. *Ecological Informatics*. 81, 102561 (9 pp.), doi:10.1016/j.ecoinf.2024.102561
5. **Cook, L.**, Good, K., Moretti, M., Kremer, P., Wadzuk, B., Traver, R., and V. Smith (2024). Towards the intentional multifunctionality of urban green infrastructure: a paradox of choice? *npj Urban Sustainability*. 4(1), 12 (13 pp.), doi:10.1038/s42949-024-00145-0
6. Rodriguez, M., Cavadini, G.B. and **L. Cook** (2024). Do baseline assumptions alter the efficacy of green stormwater infrastructure to reduce combined sewer overflows? *Water Research*. 253, 121284 (12 pp.), doi:10.1016/j.watres.2024.121284
7. Rodriguez, M., Fu, G., Butler, D., Yuan, Z., and **L. Cook** (2024). The effect of green infrastructure on resilience performance in combined sewer systems under climate change. *J. Environmental Management*. 353, 120229 (12 pp.), doi:10.1016/j.jenvman.2024.120229
8. Liu, H., Kong, F., Yin, H., **Cook, L.**, Huang, J., Lensky, I. M., and T. Tan (2024). Substrate microorganisms can be an ideal tool for improving green roof sustainability. *Urban Forestry and Urban Greening*. 91, 128179 (11 pp.), doi:10.1016/j.ufug.2023.128179
9. Maurer, B., Lienert, J., and **L. Cook** (2023). Comparing PV-green and PV-cool roofs to diverse rooftop options using decision analysis. *Building and Environment*. 245, 110922 (15 pp.), doi:10.1016/j.buildenv.2023.110922
10. Rodriguez, M., Fu, G., Butler, D., Yuan, Z., and **L. Cook** (2023). Global Resilience Analysis of Combined Sewer Systems Under Continuous Hydrologic Simulation. *J. Environmental Management*. 344, 118607 (11 pp.) doi:10.1016/j.jenvman.2023.118607
11. Tan, T., Kong, F., Yin, H., **Cook, L.**, Middel, A., and S. Yang (2023) Carbon dioxide reduction from green roofs: A comprehensive review of processes, factors, and quantitative methods. *Renewable and Sustainable Energy Reviews* 182. doi:10.1016/j.rser.2023.113412
12. Probst, N., Bach, P.M., **Cook, L.**, Maurer, M., and J. P. Leitao (2022) Blue Green Systems for urban heat mitigation: mechanisms, effectiveness and research directions. *Blue-Green Systems* 4 (2): 348–376. doi:10.2166/bgs.2022.028
13. Cavadini, G.B. and **L. Cook** (2021) Green and cool roof choices integrated into rooftop solar energy modelling. *Applied Energy* 296. doi:10.1016/j.apenergy.2021.117082
14. **Cook, L.** and T. Larsen (2020) Towards a performance-based approach for multifunctional green roofs: An interdisciplinary review. *Building and Environment* 107489. doi:10.1016/j.buildenv.2020.107489
15. **Cook, L.**, McGinnis, S., and C. Samaras (2020) The Effect of Modelling Choices on Updating Intensity Duration Frequency Curves and Stormwater Infrastructure Designs for Climate Change. *Climatic Change* doi:10.1007/s10584-019-02649-6
16. **Cook, L.**, Samaras, C., and J.M. VanBriesen (2019) Using Rainfall Measures to Evaluate Hydrologic Performance of Green Infrastructure Systems under Climate Change. *Sustainable and Resilient Infrastructure* doi:10.1080/23789689.2019.1681819
17. **Cook, L.**, Samaras, C., and J.M. VanBriesen (2018) A Mathematical Model to Plan for Long-Term Effects of Water Conservation Choices on Dry Weather Wastewater Flows and Concentrations. *J. Environmental Management*. 206C, 684 - 697. doi:10.1016/j.jenvman.2017.10.013
18. **Cook, L.**, Anderson, C.J., and C. Samaras (2017) A Framework for Incorporating Downscaled Climate Output into Existing Engineering Methods: Application to Precipitation Frequency Curves. *J. Infrastructure Systems*. 23 (4). doi:10.1061/(ASCE)IS.1943-555X.0000382
19. Fischbach, J.R., Siler-Evans, K., Wilson, M., Tierney, D., **Cook, L.**, and L. May (2017) Resilient Stormwater Management in Allegheny County and the Pittsburgh Metropolitan Region: A Pilot Study. Santa Monica, Calif.: RAND Corporation, RR-1673-MCF, 2017
20. Marchetti, P.A., Gupta, V., Grossmann, I.E., **Cook, L.**, Valton, P.M., Singh, T., Li, T., and J. Andre (2014) Simultaneous Production and Distribution of Industrial Gas Supply-chains. *Journal Computers & Chemical Engineering*. 69, 39-58. doi:10.1016/j.compchemeng.2014.06.010
21. **Cook, L.** and R. McCuen (2013). The Hydrologic Response of Solar Farms. *Journal Hydrologic Engineering*. 18(5), 536-541. doi:10.1061/(ASCE)HE.1943-5584.0000530

Swiss Trade Journals

22. Perrelet, K., Moretti, M., Dietzel, A., Maurer, M. and **Cook, L.** (2023) Engineering blue-green infrastructure for and with biodiversity *Hotspot*
23. Smith, V., **Cook, L.**, and S. Oppliger (2023) Umsetzung blau-grüner Infrastruktur Weltweit. Was kann die Schweiz daraus lernen? *Aqua und Gas* 103(9) 16-24 link: [Internal Eawag Repository](#)
24. Schnorf, H., Bergamini, A., **Cook, L.**, and M. Moretti (2022) Revitalisierte Bäche leisten einen Beitrag zur städtischen Pflanzenvielfalt. Les ruisseaux revitalisés favorisent la diversité spécifique de la flore urbaine. *Natur und Landschaft. Nature et Paysage* 35-39. link: [Internal Eawag Repository](#)

Conference Proceedings

25. Olmstead, S., O'Connor, A., Samaras, C., **Cook, L.**, and B. Martinez-Pastor (2017) A Climate Engineering Assessment for Transportation Assets - Incorporating Probabilistic Analysis into Extreme Weather and Climate Change Design Engineering. Transportation Research Board 2017 Annual Meeting.

Under Review

1. Hassoun, L. and **L. Cook** (In Revision). Global analysis of combined photovoltaic green and cool roofs under climate change. *Advanced Sustainable Systems*.
2. Lian, T., Rieckermann, J., Kim, D.K., and **L. Cook** (Under Review). Context-Specific Selection of Poisson Cluster Rainfall Models for Accurate Urban Hydrological Simulations. *Journal of Hydrology*.
3. Nguyen, T., Velasquez, P., Dietzel, A., and **L. Cook** (Under Review). Bias Correction of Precipitation from Convection-Permitting Models at the Point Scale: A Case Study in Switzerland. *Climatic Change*.

In Preparation

4. Dietzel, A., Moretti, M., Perrelet, K., and **L. Cook** (In Prep). Urbanisation exacerbates climatic risk to urban biodiversity. In prep for *Nature Climate Change*.
5. **Cook, L.**, Ort, C. and T. Larsen (In Prep). Experimental findings of bi-facial solar panels and green roofs? In prep for *Building and Environment*.

COMMUNICATIONS AT INTERNATIONAL CONFERENCES

1. Dietzel, A.*, Moretti, M., Hersperger, A., and **L. Cook** (2024). *Oral: Urban biodiversity trends under scenarios of climate change and urbanisation* World Biodiversity Forum 2024, Davos Congress Center, Davos, CH, June 20, 2022.
2. Perrelet, K.*, **Cook, L.**, Altermatt, F., and M. Moretti (2024). *Oral: Unveiling urban aquatic-terrestrial arthropod community structures with EDNA* World Biodiversity Forum 2024, Davos Congress Center, Davos, CH, June 20, 2022.
3. Maurer, B., Lienert, J., and **L. Cook.*** (2024). *Poster: Considering a range of criteria for sustainable roofs: solar panels, green roofs, or both?* World Biodiversity Forum 2024, Davos Congress Center, Davos, CH, June 19, 2022.
4. **Cook, L.***, Good, K., Moretti, M., Kremer, P., Wadzuk, B., Traver, R., and V. Smith (2024). *Oral: Designing green infrastructure for multifunctionality.* 16th International Conference on Urban Drainage 2024, TU Delft, Delft, Netherlands, June 11, 2024.
5. Nguyen, T.* and **L. Cook** (2023). *Oral: Downscaling of convection-permitting simulated precipitation for climate change adaptation.* EMS Annual Meeting 2023, University of Economics Bratislava, Bratislava, Slovakia, Sept. 7, 2023.
6. Rodriguez, M*., Cavadini, G.B. and **L. Cook** (2023). *Poster: The effect of model structure and assumptions on combined sewer overflows and green stormwater infrastructure.* NovaTech 2023, ISARA, Lyon, France, June 6, 2023.
7. Cavadini, G.B.* and **L. Cook** (2023). *Oral: Blue Green Infrastructure in a future climate: is the reduction of combined sewer overflow possible?.* NovaTech 2023, ISARA, Lyon, France, June 5, 2023.
8. Cavadini, G.B.* and **L. Cook** (2023). *Oral: Blue Green Infrastructure in a future climate: can we reduce combined sewer overflows?.* European Geosciences Union 2023, Austria Center, Vienna, Austria, April 26, 2023.
9. **Cook, L.***, Good, K., Moretti, M., Kremer, P., Wadzuk, B., Traver, R., and V. Smith (2023). *Poster: Towards the intentional, multifunctional design of green infrastructure.* European Geosciences Union 2023, Austria Center, Vienna, Austria, April 25, 2023.

10. Perrelet, K.*, Moretti, M., and **L. Cook** (2022). *Oral: Engineering blue-green systems to improve biodiversity: A perspective and review*. World Biodiversity Forum 2022, Davos Congress Center, Davos, CH, June 27, 2022.
11. Dietzel, A.*, Moretti, M., and **L. Cook** (2022). *Oral: Quantifying the ecological performance of blue-green infrastructure*. World Biodiversity Forum 2022, Davos Congress Center, Davos, CH, June 30, 2022.
12. Cavadini, G.B. and **L. Cook*** (2021). *Oral: Comparing rooftop choices for cooler cities and more electricity*. American Geophysical Union 2021 Fall Meeting, New Orleans, LA, USA, December 14, 2021.
13. **Cook, L.*** and T. Larsen (2021). *Oral: Performance based design of multifunctional green roofs*. International Conference on Urban Drainage (ICUD) 2021, Online, October 25, 2021.
14. Cavadini, G.B.* and **L. Cook** (2021). *Oral: Integrating sustainable rooftop choices into solar energy planning to quantify potential increase in photovoltaic yield*. CISBAT 2021, Lausanne, CH, September 8, 2021.
15. **Cook, L.*** VanBriesen, J.M., and C. Samaras (2020) *Poster: An Early Warning to Adapt Green Infrastructure*. 9th International Conference on Sewer Processes and Networks (SPN9), Musikkens Hus, Aalborg, DK, August 27, 2019.
16. Lopez-Cantu, T.*, **Cook, L.**, and C. Samaras (2019). *Oral: Robust Decision Making for Resilience*. American Geophysical Union 2019 Fall Meeting, Moscone Center, San Francisco, CA, USA, December 13, 2019.
17. **Cook, L.**, VanBriesen, J.*, and C. Samaras (2019) *Oral: Using Rainfall Measures to Evaluate Hydrologic Performance of Green Infrastructure Systems under Climate Change*. American Geophysical Union 2019 Fall Meeting, Moscone Center, San Francisco, CA, USA, December 13, 2019.
18. **Cook, L.*** and T. Larsen (2019). *Oral/Poster: Multi-functional Green Roofs*. 2019 Eawag Symposium, Forum Chreisbach, Dubendorf, CH, September 12, 2019.
19. **Cook, L.***, McGinnis, S., and C. Samaras (2018). *Oral: The Effect of Modelling Choices on IDF Curves and Stormwater Infr.*. University Council on Water Resources (UCOWR) 2018 Conference, Pittsburgh Marriott City Center, Pittsburgh, PA, USA, June 26, 2018.
20. **Cook, L.***, Weinburg, R., Goradia, A., and C. Kolb (2018). *Oral: Higher Highs, Lower Lows: Increased Variability within the Ohio River Basin*. University Council on Water Resources (UCOWR) 2018 Conference, Pittsburgh Marriott City Center, Pittsburgh, PA, USA, June 26, 2018.
21. **Cook, L.***, McGinnis, S., and C. Samaras (2018). *Oral: Uncertainty in Adjustment Methods for Climate Updated Intensity-Duration-Frequency Curves*. American Geophysical Union 2017 Fall Meeting, Ernest N. Moral Convention Center, New Orleans, LA, USA, Dec 12, 2017.
22. **Cook, L.***, Anderson, C.J., Samaras, C. (2017). *Oral: A Framework for Climate-Resilient Designs: Translating Extreme Precipitation Data from Climate Change Projections into Engineering Applications*. ASCE Congress on Technical Advancement 2017, Duluth Entertainment Convention Center, Duluth, MN, USA, Sep 11, 2017.
23. **Cook, L.***, Anderson, C.J., Samaras, C. (2017). *Oral: A Framework for Incorporating Downscaled Climate Output into Existing Engineering Methods: Application to Precipitation Frequency Curves*. ISIE-ISST, University of Chicago, Chicago, IL, USA, Jun 28, 2017.
24. **Cook, L.***, Anderson, C.J., Samaras, C. (2017). *Oral: A Framework for Incorporating Downscaled Climate Output into Existing Engineering Methods: Application to Precipitation Frequency Curves*. Engineering Sustainability 2017, David L. Lawrence Convention Center, Pittsburgh, PA, USA, Apr 9, 2017.
25. **Cook, L.***, Anderson, C.J., Samaras, C. (2016). *Oral: Resilient and Reliable Infrastructure in an Uncertain Future Climate: A Framework for Updating Existing Engineering Applications with Climate Model Output*. American Geophysical Union 2016 Fall Meeting, Moscone Center, San Francisco, CA, USA, Dec 13, 2016.
26. **Cook, L.***, Anderson, C.J., Samaras, C. (2016). *Oral: Translating Extreme Precipitation Data from Climate Change Projections into Resilient Engineering Applications*. 4th Annual Decision Making Under Deep Uncertainty (DMDU) Workshop, The World Bank, Washington, D.C., USA, Nov 16, 2016.

*indicates presenter