

Lauren Cook, Ph.D, EIT

Curriculum Vitae



Überlandstrasse 133, 8600 Dübendorf
+41 (0) 79 278 0589
lauren.cook@eawag.ch
<https://tinyurl.com/Lcookeawag>
<https://scholar.google.com/cooklaur>
orcid.org/0000-0001-7790-1294
<https://www.linkedin.com/in/lauren-cook>

EDUCATION

- 2014 - 2018 **Doctor of Philosophy**
ADVISORS: COSTA 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

AWARDED FUNDING AS PI

- 2026 **Innosuisse, 15,000 CHF**
Innovation cheque (PI)
ResiVég: Climate-resilient vegetation for sponge cities
- 2026 **Grün Stadt Zurich, 20,000 CHF**
Seed funding (PI)
ResiVég: Climate-resilient vegetation for sponge cities
- 2022 **SNSF Synergia Funding, 411,095 CHF**
No. CRSII5 213584 (co-PI)
PAPPUS: Plants and People in Urban Systems
- 2021 **SNSF Project Funding, 583,864 CHF**
No. 20002_204790 (PI)
BETTER: Blending design and dEcision-making for mulTi-funcTional bluE-green infRastructure
- 2021 **Blue-Green Biodiversity (BGB), 520,000 CHF**
Joint Eawag-WSL Funding Initiative (PI)
Benefit: Blue-Green Stormwater Infrastructure Meets Biodiversity in the City
- 2019 **Eawag Postdoctoral Fellowship, 2-year funding**
Quantifying the co-benefits of distributed stormwater and energy infrastructure
Post-doctoral researcher

MAIN RESEARCH AREAS

- Blue-green infrastructure
- Climate model downscaling
- Urban biodiversity and sustainability
- Multifunctionality and resilience

EMPLOYMENT HISTORY

APRIL 2021–PRESENT (DÜBENDORF, SWITZERLAND)
Eawag, Urban Water Management Dept.
Tenure Track Group Leader

Principal investigator of **interdisciplinary research** with ecologists, biologists, eco-hydrologists, and social scientists to design multifunctional blue-green infrastructure systems

JAN 2019–MAR 2021 (DÜBENDORF, SWITZERLAND)
Eawag, Urban Water Management Dept.
Post-doctoral Fellow

Led a **transdisciplinary collaboration** with ETH Zürich and industry specialists to investigate multifunctional, photovoltaic (PV) green roofs

JUN 2017–AUG 2017 (BOULDER, CO, USA)
National Center for Atmospheric Science (NCAR),
Institute for Mathematics Applied to Geosciences
Visiting Researcher

Exchanged with **climate scientists and statisticians** on downscaling of regional climate models

AUG 2014–DEC 2018 (PITTSBURGH, PA, USA)
Carnegie Mellon University, Civil & Environmental Engineering Dept.
Doctoral Researcher

Integrated climate projections and uncertainty into stormwater infrastructure design, supported by **collaborations with RAND and NCAR**

AUG 2012–AUG 2014 (NEWARK, DE, USA)
Air Liquide R&D, Applied Mathematics Dept.
Research Associate

Co-developed and executed a supply chain optimization model, **translating technical outputs** for an international, non-expert audience

MAY 2010–AUG 2010 (COLLEGE PARK, MD, USA)
University of Maryland, Civil & Environmental Engineering Dept.
Water Resources Research Assistant

Authored a **research paper** on the hydrologic response of solar farms, supervised by Prof. Emeritus Richard McCuen

CAREER BREAKS

2024 Maternity leave, 6 months

SUPERVISION

Doctoral Students

Student	University	Co-supervisor(s)	Dissertation Title	Duration Defense
Henriette Rilling	ETH Zurich	Max Maurer	Blue-green infrastructure planning under deep uncertainty	2026 –
Yuxin Yin ⁺	EPFL	Gabriele Manoli	Evaluating the influence of urban green space design on microclimate under current and future conditions	2023 –
Giovan Battista Cavadini ⁺	ETH Zurich	n/a	Stormwater management and heat mitigation performance of blue-green infrastructure in a current and future climate	2022–2026 Jan 2026
Kilian Perrelet ⁺	Univ. Zurich	Marco Moretti, Florian Altermatt	Supporting biodiversity through the design of Interlinked blue and green Infrastructure in cities	2021–2025 Sept 2025
Mayra Rodriguez	Univ. Exeter	David Butler, Guangtao Fu	Spatial interactions between green infrastructure, shallow groundwater, and combined sewers systems influence urban drainage system resilience	2021 – 2022 June 2022

⁺ LC primary supervisor (obtained funding)

MSc/BSc Students

Student	Degree	University	Project Title	Year
Oskar Herbst	MSc Thesis	ETH Zurich	Strategic Spatial Allocation of Blue-Green Infrastructure in Renewing Urban Landscapes: Impacts on Stormwater Management	2026
Caterina Pozzani	MSc Thesis	Univ. Trento	Stormwater and cooling performance of realistic BGI combinations	2026
Raffaele Taparelli	MSc Thesis	ETH Zurich	Integrated assessment of green roof design for urban heat mitigation and stormwater management	2025
Oceane Inglard*	MSc Internship	Ecole Polytechnique de Paris	Study of meso- and macrofauna communities on Zurich green roofs: investigating the potential of green roofs to connect or complement urban green spaces using environmental DNA	2024
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
Louise Gogibu	MSc Internship	Ecole Polytechnique de Paris	Study on the impacts of blue-green infrastructure on biodiversity	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
Ines Malot	MSc Project	ETH Zurich/ Ecole de Mines de Paris	Does vegetation influence the hydrologic performance of green roofs?	2020
Giovan Battista Cavadini	MSc Thesis	ETH Zurich	Evaluating potential efficiency gains in rooftop solar panels placed on green roofs	2019–2020

* Prix du Stage for internship report awarded

** Willi-Studer Preis for MSc thesis awarded

Post-doctoral Researchers

Name	Research Focus	Project	Funding	Duration
Sebastian Schär ⁺	Multi-criteria decision analysis	BETTER	SNF Project	2024–2026
Trang Nguyen ⁺	Bias-correction and downscaling	BETTER	SNF Project	2022–2024
Andreas Dietzel ⁺	Urban ecology and statistical modeling	Benefit	BGB Initiative	2021–2025
Mayra Rodriguez	Urban drainage modeling	UWO	ETH Zurich	2022 - 2023

⁺ LC obtained funding

Other Research Staff

Name	Role	Project	Funding	Duration
Hallie Seiler ⁺	Research assistant	ResiVeg	Grun Stadt Zürich	2026–present
Pablo Mesenholl	Civil Servant	PAPPUS	SWW Department	2025
Fengge Liu ⁺	Research assistant	PAPPUS	SNF Sinergia	2024 – 2026
Alba Gutierrez Pedemonte	Scientific assistant	Varies	SWW Dept.	2024–present
Simon Sennhauser	Civil Servant	Benefit	SWW Department	2023
Noemi Buri ⁺	Research assistant	PAPPUS	SNF Sinergia	2022 – 2024
Ramun Bar	Civil Servant	Living Lab Bern	SWW Department	2022
Patrick Stettler	Civil Servant/ Research Assistant	Future Rainfall	SWW Department	2021–2022

⁺ LC obtained funding

DOCTORAL COMMITTEES

Dissertation Committee Supervisor

- **Giovan Battista Cavadini**, *"Stormwater management and heat mitigation performance of blue-green infrastructure in a current and future climate,"* ETH Zürich, 2026.
- **Kilian Perrelet**, *"Supporting biodiversity through the design of Interlinked blue and green Infrastructure in cities,"* University of Zürich, 2025.

Dissertation Committee Independent Examiner

- **Yuyang Chang**, *"Vegetation's Contribution in Achieving Climate-Adaptive and Inclusive Cities,"* ETH Zürich, 2025.

Proposal Committee Supervisor

- **Enrico Bernardini**, *"Hydraulic performance assessment of blue-green infrastructures with a soft-sensing approach,"* ETH Zürich, 2025. (Replacement supervisor)
- **Yuxin Yin**, *"Evaluating the influence on microclimate of plant traits and assemblages in urban green space under current and future conditions,"* EPFL, 2024.
- **Giovan Battista Cavadini**, *"Comparing Water, Heat and Ecological Performance of Blue-Green Infrastructure in Current and Future Climate,"* ETH Zürich, 2022.
- **Kilian Perrelet**, *"Using eDNA to reveal aquatic and terrestrial community dynamics in the urban matrix,"* University of Zürich, 2022.

TEACHING

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

Dept of Civil & Environmental Engineering, Carnegie Mellon University

Teaching Assistant, Water Resource System Engineering, Prof. and President Emeritus Jared CobonPresentation *Tackling Diverse Student Backgrounds Before, During, and After Class* at the 2016 Teaching & Learning Summit, CMU

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

- JUNE 2025 **PhD School Water Earth Systems**
Extreme precipitation and hydrological impacts: theory and applications
 Eawag, Dübendorf, Switzerland
 Lecture, "The effect of modeling choices on updating IDF curves for climate change," 1-hour
- AUG 2023 **Summer School: Blue-green biodiversity**
Research and practice at the interface of aquatic and terrestrial ecosystems
 Davos, Switzerland
 Lecture and group work, "Multifunctional blue-green infrastructure in cities," 1.5 hours

OUTREACH AND KNOWLEDGE TRANSFER

Media Coverage

- 2025 "Wie viel bringt die Schwammstadt?" — Wissenschaftsmagazin, Schweizer Radio und Fernsehen (SRF), broadcast 30 Aug 2025. [Available online](#)
- 2025 "Vom Beton zur Schwammstadt: Städte im Klimawandel — Wie aus Städten Schwämme werden," Schweizer Radio und Fernsehen (SRF) Wissen, 29 Aug 2025. [Available online](#)
- 2025 "Wetterextreme in der Schweiz: „Unsere Systeme sind nicht für zukünftige Starkregen gewappnet," Podcast Durchblick (hosted by Blick), 4 June 2025. [Available online](#)
- 2024 "Radiogiornale," RSI Radiotelevisione svizzera Rete Uno, radio broadcast, 11 Oct 2024. [Available online](#)

Outreach Presentations

- Info Tag / Journée d'infEAU:** Identifier, préserver et promouvoir la biodiversité bleue-verte "Concevoir nos zones urbaines pour la biodiversité" (F) | [Link to program](#) 2024
 Presented to stakeholders in the biodiversity community as part of a joint outreach event between Eawag and WSL Dübendorf, CH
- Café Scientifique** 2024
 "Multifunctional blue-green infrastructure in cities – a paradox of choice?" (EN) | [Link to website](#)
 Informal presentation open to the general public where anyone can participate in the discussion of current scientific issues Zürich, CH
- Info Tag / Journée d'infEAU:** Recherche sur l'eau pour un développement durable "Outils pour des villes résilientes" (F) | [Link to program](#) 2023
 Presented stakeholders in the water sector as part of Eawag's annual outreach

Dübendorf, CH

ETH Environmental Engineering Graduation Ceremony

2021

"Keep calm: This is only your first step" (EN) | [Link to speech](#)

Keynote speaker for the class of 2019 and 2020 graduation ceremony. Spoke about my career path, alluding to uncertainties, choices and future steps relevant for young engineers

Zürich, CH

Scientist in the Classroom Pilot, U.S. National Center for Science Education

2015-2016

Scientist in Environmental Engineering

Engaged high school students in critical discourse on climate change and air/water pollution through repeated guest lectures for the 'Scientist in the Classroom' outreach program

Central Valley, PA, USA

Digital Products

BioClimRisk: Aquatic Biodiversity and Climate Risk

2026–Present

bioclimrisk.eawag.ch

Launched a bilingual (DE/EN) web-based platform to translate findings from species at risk in Zurich to insights for practitioners and the public. Development by post-doc Andreas Dietzel.

FELLOWSHIPS & AWARDS

2018 **3rd Place Student Presentation**
Universities Council on Water Resources Conference

2016 - **John and Claire Bertucci Fellowship**
2017 *Carnegie Mellon Civil & Environ. Eng.*

2016 **Best Student Poster Award**
8th Annual Sustainability Conference, Pittsburgh

2014 **Carnegie Mellon Deans Fellowship**
Carnegie Mellon Civil & Environ. Eng.

2016 **Outstanding Teaching Assistant Award**
Carnegie Mellon Civil & Environ. Eng.

2012 - **Tuck Foundation Scholarship**
2013 *Institute Français du Pétrole (IFP School)*

SERVICE

Committees and Professional Memberships

- 2024– **Member**, Center for Climate Systems Modeling (C2SM), ETH Zurich
- 2021– **Advisory Board**, Fachplan Regenwasser im Siedlungsraum, Entsorgung + Recycling, Stadt Zurich
- 2021–2024 **Leadership team member**, European Infrastructure and Climate Network (ICNet Europe)
- 2019–2021 **Board Member**, Eawag Postdoctoral Association (EPSA), *Eawag*
- 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, *Carnegie Mellon*
- 2015–2018 **Member**, American Society of Civil Engineers (ASCE)
- 2014–2016 **Civil & Environmental Engineering Department Representative**, Graduate Student Association, *Carnegie Mellon*

Organization of Conferences and Workshops

- 2025 **Workshop Organiser**, Addressing climate change in urban drainage using climate data and communication to the public
Urban Drainage Modelling Conference, Innsbruck, Austria
- 2023-2025 **Conference Organiser**, VSA-Wassertage 2025: Vision Schwammstadt
Emmeten, Switzerland
- 2022 **Workshop Organiser**, Blue-green infrastructure Mini Symposium
Eawag, Dübendorf, Switzerland
- 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

- MAY 2026 **Session Convener**, Integrated Approaches to Implementing Nature-Based Solutions in Urban Areas
ITS4.14/HSt2.7, European Geosciences Union, Vienna, Austria
- 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

Service to Eawag (selected examples)

- **Climate Solutions Hub**, Core Team Member, 2026 – present.
- **Hiring Committee**, Climate Change Adaptation Cluster Hire, Public Health Committee, Dübendorf, 2024.
- **Presentation to Peer Review Committee**, *"Blending design and decision making for multifunctional blue-green infrastructure,"* Dübendorf, 2024.
- **Presentation to ETH Board**, *"Adapting to climate change using sponge cities,"* Birmensdorf, 2023.
- **Presentation at ENRICH Human Health Day**, *"Engineering urban blue-green infrastructure for multiple objectives: Can we design for human health and well-being?,"* Dübendorf, 2023.

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 2021, Urban Drainage Modeling Conference 2025
- REVIEW FOR PROPOSALS US-Israel Bi-National Agricultural Research and Development Fund, Natural Sciences and Engineering Research Council of Canada (NSERC)

TRAINING & SKILLS

Training and Leadership

- | | | | |
|------|---|------|--|
| 2025 | Leadership in Science (Basic)
University of Applied Sciences and Arts Northwestern
Switzerland | 2017 | Future Faculty Program Completion
Eberly Center for Teaching Excellence,
Carnegie Mellon University |
| 2019 | Leadership in Academia Training
Fix the Leaky Pipeline Program, ETH Zürich | 2016 | Bias Busters Training
College of Engineering, Carnegie Mellon Univ. |

Computer & Communication Skills

- | | | | |
|-----------------------|---|------------------------|--|
| LANGUAGES | English (Native), French (Bilingual), German (Level B2)
Swiss German (Working Proficiency), 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 |

COMMUNICATIONS AND PRESENTATIONS

Legend: *presenter, invited presentation

International Conferences

1. Perrelet, K.*, Moretti, M., Altermatt, F., and **L. Cook** (2025). *Oral: Small habitat patches are the largest contributors to urban biodiversity across taxonomic groups*. British Ecological Society Annual Meeting, Edinburgh, UK, Dec 15, 2025
2. Cavadini, G.B.*, Manoli, G. and **L. Cook** (2025). *Oral: From urban drainage to urban heat: Can stormwater blue-green infrastructure help to cool?*. Urban Drainage Modelling Conference 2025, Univ. of Innsbruck, Innsbruck, Austria, Sept 25, 2025.
3. Yuxin, Y.*, Manoli, G., and **L. Cook** (2025). *Oral: Cooling down urban green spaces in a future climate*. International Conference on Urban Climate, Rotterdam, Netherlands, July 10, 2025.
4. Nguyen, T., Dietzel, A. and **L. Cook*** (2025). *Oral: From station scale bias-correction of precipitation from convection-permitting models in Switzerland*. European Geosciences Union 2025, Austria Center, Vienna, Austria, April 28, 2025.
5. Cavadini, G.B.*, Manoli, G. and **L. Cook** (2025). *Oral: From urban drainage to urban heat: Can stormwater blue-green infrastructure help to cool?*. European Geosciences Union 2025, Austria Center, Vienna, Austria, April 28, 2025.
6. Yin, Y.*, Manoli, G. and **L. Cook** (2025). *Poster: Cooling down urban green spaces in a future climate*. European Geosciences Union 2025, Austria Center, Vienna, Austria, April 28, 2025.
7. Perrelet, K.*, Moretti, M., Altermatt, F., and **L. Cook** (2024). *Oral: Urbanization simplifies and decouples aquatic and terrestrial food webs*. British Ecological Society Annual Meeting, Liverpool, UK, Dec 10, 2024
8. 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 16, 2024.
9. 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 16, 2024.
10. 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, 2024.
11. Cavadini, G.B.*, Nguyen T., Rodriguez, M., and **L. Cook..** *Oral: Can blue-green infrastructure counteract the effects of climate change on combined sewer overflows?*. 16th International Conference on Urban Drainage 2024, TU Delft, Delft, Netherlands, June 11, 2024.
12. **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.
13. Cavadini, G.B.*, Bachtold, L., Nguyen T. and **L. Cook** (2024). *Poster: Evaluating green roof heat mitigation potential in a changing climate*. European Geosciences Union 2024, Austria Center, Vienna, Austria, April 14, 2024.
14. Yuxin, Y.* and **L. Cook** (2024). *Poster: Assessing the microclimate conditions in urban green spaces and the effects of underlying driving factors in Switzerland*. European Geosciences Union 2024, Austria Center, Vienna, Austria, April 14, 2024.
15. Perrelet, K.*, Moretti, M., Altermatt, F., and **L. Cook** (2023). *Oral: Environmental DNA uncovers aquatic and terrestrial arthropod community structures in cities*. British Ecological Society annual meeting, Belfast, UK, Dec 12, 2023
16. 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.
17. 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.
18. 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.
19. 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.
20. **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.

21. 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.
22. 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.
23. 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.
24. **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.
25. 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.
26. **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.
27. 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.
28. **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.
29. **Cook, L.*** and T. Larsen (2019). *Oral/Poster: Multi-functional green roofs*. 2019 Eawag Symposium, Forum Chreisbach, Dubendorf, CH, September 12, 2019.
30. **Cook, L.***, McGinnis, S., and C. Samaras (2018). *Oral: The effect of modelling choices on IDF curves and stormwater infrastructure*. University Council on Water Resources (UCOWR) 2018 Conference, Pittsburgh Marriott City Center, Pittsburgh, PA, USA, June 26, 2018.
31. **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.
32. **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.
33. **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.
34. **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.
35. **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.
36. **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.
37. **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.

Swiss Research Conferences

1. **L. Cook** (2025). *Oral: Adapting to climate change using blue-green infrastructure*. Shaping the Future: ETH Domain Conference 2025, Lausanne, Switzerland, Dec 14, 2025.
2. Cavadini, G.B.*, Manoli, G. and **L. Cook** (2025). *Oral: From Urban Drainage to Urban Heat: Can Stormwater Blue-Green Infrastructure Help to Cool?*. Swiss Geoscience Meeting 2025, Bern, Switzerland, Dec 12, 2025.
3. Yin, Y.*, Manoli, G. and **L. Cook** (2025). *Oral: Cooling down urban green spaces in a future climate*. Swiss Geoscience Meeting 2025, Bern, Switzerland, Dec 12, 2025.
4. Yin, Y.*, Manoli, G. and **L. Cook** (2024). *Oral: Modeling the microclimate in urban green spaces*. Swiss Geoscience Meeting 2024, Basel, Switzerland, Nov 11, 2024.
5. Cavadini, G.B.*, Manoli, G. and **L. Cook** (2024). *Poster: Heat mitigation potential of Blue-Green Infrastructure*. Swiss Geoscience Meeting 2024, Basel, Switzerland, Nov 11, 2024.
6. Perrelet, K.*, Moretti, M., Altermatt, F., and **L. Cook** (2024). *Poster: The hidden biodiversity of Zurich: eDNA insights on aquatic and terrestrial arthropods*. Biology24, Zurich, CH, Jan 18, 2024.
7. Perrelet, K.*, Moretti, M., Altermatt, F., and **L. Cook** (2023). *Poster: Engineering for and with biodiversity in cities*. Biology23, Geneva, CH, Feb 16, 2023.
8. Perrelet, K.*, Moretti, M., Altermatt, F., and **L. Cook** (2022). *Poster: Engineering for biodiversity: integrating Blue-Green Systems using eDNA*. Biology22, Basel, CH, Feb 17, 2022.

Local Trade Conferences

1. Cavadini, G.B.*, Manoli, G. and **L. Cook** (2025). *Oral: Von Entwässerung zur Abkühlung: kann blau-grüne Infrastruktur die urbane Hitze mindern?*. Aqua Urbanica 2025, Rapperswil, Switzerland, Sept. 22, 2025. Language: German
2. Cavadini, G.B.* and **L. Cook** (2025). *Oral: Potentialanalyse von blau-grüner Infrastruktur zur Reduktion von Mischwasserentlastungen*. VSA Wassertag, Emmetten, Switzerland, June 10, 2025. Language: German
3. **L. Cook** (2024). *Oral: S'adapter à un climat plus extrême grâce aux villes éponges bleues-vertes*. Forum WSL Suisse Romande 2024 EPFL, Lausanne, Switzerland, Oct 24, 2024. Language: French
4. Maurer, B.*, Lienert, J. and **L. Cook** (2023). *Oral: Entscheidungshilfe für die Dachgestaltung Bewertung verschiedener Optionen wie Begrünung, kühles Dach, Solarmodule oder Kombinationen davon, anhand mehrerer Umweltkriterien*. Fachtagung Hitzeminderung am Gebäude, Zürich, Switzerland, Mar 21, 2023. Language: German
5. Lian, T., Rieckermann, J. and **L. Cook*** (2022). *Oral: Verbesserungen und Validierung eines stochastischen Niederschlagsgenerators für städtische hydrologische Anwendungen in der Schweiz*. Aqua Urbanica: Grun statt Grau, Glattfelden, Switzerland, Oct 2022. Language: German
6. **L. Cook*** (2022). *Oral: A Knowledge Transfer of International Blue-Green Infrastructure Practices*. Kanalisations Forum, Rapperswil, Switzerland, May 2022. Language: English
7. **L. Cook** (2021). *Oral: Planung der Stadtentwässerung für den Klimawandel*. Fachtagung: Regenwasser und Abwasser im Klimawandel, Zurich, Switzerland, Nov 24, 2021. Language: German
8. **L. Cook** (2021). *Oral: S'adapter aux précipitations plus extrêmes en Suisse: pourquoi, où, comment ?*. AQUA 360: Le Congrès Suisse Sur L'eau de la SSIGE et du VSA, Bellinzona, Switzerland, Oct 2021. Language: French

Seminars and Workshops

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

- 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