

A. Marissa Matsler
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Education

Ph.D. in Urban Studies, Portland State University, 2017

Dissertation Title: *Knowing Nature in the City: comparative analysis of knowledge systems challenges along the 'Eco-Techno Spectrum' of green infrastructure in Portland & Baltimore*

M.E.M. with Urban Ecology focus, Yale School of Forestry & Environmental Studies, 2010

Certificate of Sustainable Design, Ecosa Institute, 2006

B.S. in Marine Biology, Oregon State University, 2005

Grants & Fellowships

2014-2015: IGERT Legacy Fellowship, Institute for Sustainable Solutions, Portland State University

2013-2014: IGERT Mentor Fellowship, Ecosystem Services supporting Urbanizing Regions IGERT Program, Portland State University

Summer 2013: Oregon Fellow at Oregon Watershed Enhancement Board (OWEB), Hatfield School of Government: Center for Public Service, Portland State University

2011-2013: NSF IGERT Fellowship, Ecosystem Services supporting Urbanizing Regions IGERT Program, Portland State University

2004-2005: Oregon Sea Grant Undergraduate Fellowship, Weis Lab, Oregon State University

Professional Appointments

July 2017-present: Urban Resilience to Extremes Sustainability Research Network (UREx SRN)

Postdoctoral Research Associate, Groffman & Rosi Labs at Cary Institute for Ecosystem Studies, Millbrook, NY.

Feb 2015-Sept 2016, March-June 2017: Lead Researcher – Green Infrastructure Valuation Project, Portland Climate Action Collaborative, Portland, OR.

Sept 2010-Feb 2011: Lab Assistant, Lytle Lab (entomology) at Oregon State University, Corvallis, OR.

Feb-May 2010: Stormwater Management Research Assistant, Yale Urban Design Workshop, Bridgeport & New Haven, CT.

Feb-March 2009: Research Assistant through Yale Program on Forest Policy & Governance (YFPFG), US Green Building Council, New Haven, CT.

Oct 2008-Dec 2009: Co-creator of Entrepreneurial Start-up, sustainable wood cooperative WildWood, New Haven, CT.

Sept 2008-Jan 2009: Research Assistant, Center for Industrial Ecology, New Haven, CT.

March 2007-Feb 2008: Head Educator/Live-aboard Crew, SoundWaters, Stamford, CT.

Jan-March 2007 & April 2008: Field & Lab Assistant, Lytle Lab (entomology) at Oregon State University, Bill Williams River, AZ.

May-Dec 2006: Onshore Intern, PISCO Lab at Oregon State University, various locations on the Oregon Coast.

Interdisciplinary Experience

Sept 2015-Sept 2016: Graduate Research Assistanceship, Urban Resilience to Extremes Sustainability Research Network (UREx SRN), Portland, OR.

April 2014-April 2016: **Research Assistant**, Clean Water for All (CWFA), Newcastle, England/Portland, OR/Ningbo, China.

June 2013-March 2014: **Research Assistant**, Futurescape City Tour, Portland, OR.

Aug 2011-Aug 2012: **Research Assistant**, Radboud Honours Academy Think Tank – Urbanizing Delta Regions, Nijmegen, Netherlands/Portland, OR.

Nov 2011-July 2012: **Research Assistant**, ULTRA-Ex Project, Portland, OR/Vancouver, WA.

Oct 2009-May 2010: **Consultant**, AECOM – Productive Urban Landscapes Initiative. New York City, NY.

Jan-May 2010: **Student in Research-Intensive Course**, Ecological Urbanism, New Haven, CT.

Publications

Peer-reviewed

Finewood, M., **M. Matsler**, & J. Zivkovich. *in press*. “Green infrastructure and the hidden politics of urban stormwater governance in a postindustrial city.” *Annals of the American Association of Geographers*.

Rosenzweig, B., L. McPhillips, H. Chang, C. Cheng, C. Welty, **M. Matsler**, & D. Iwaniec. 2018. “Pluvial flood risk and opportunities for resilience.” *Wiley Interdisciplinary Review: Water* e1302. <https://doi.org/10.1002/wat2.1302>.

McPhillips, L. & **M. Matsler**. 2018. “Temporal evolution of green stormwater infrastructure strategies in three US cities.” *Frontiers in Built Environment* 4: 26.

Grabowski, Z., A. Denton, M. Rozance, S. Kidd, & **M. Matsler**. 2017. “Removing Dams, Constructing Science: co-production of un-dammed riverscapes by politics, finance, environment, society and technology.” *Water Alternatives* 10(3): 769-795.

Grabowski, Z., **M. Matsler**, C. Thiel, L. McPhillips, T. Miller, & C. Redman. 2017. “Infrastructures as Socio-Eco-Technical Systems: five considerations for interdisciplinary dialogue.” *ASCE Journal of Infrastructure Systems*. 23(4): 02517002.

Everett, G., J. Lamond, A. Morzillo, **M. Matsler**, & F. Chan. 2015. “[Delivering Green Streets: an exploration of changing perceptions and behaviours over time around bioswales in Portland Oregon.](#)” *Journal of Flood Risk Management*. doi: 10.1111/jfr3.12225.

Everett, G., J. Lamond, A. Morzillo, F. Chan, & **M. Matsler**. 2016. “[Sustainable drainage systems: helping people live with water.](#)” *Proceedings of the ICE – Water Management*. 169(2): 94-104.

Reports & Book Chapters

Kelley, L., E. Reisman, K. Clifford, D. Lea, **M. Matsler**, M. Malone, and A. Liebman. 2018. “Opportunities for Engaging Critical Physical Geography: Graduate Student Perspectives on Charting a Critical Physical Geography Path in Graduate School.” in *Palgrave Handbook of Critical Physical Geography*, edited by R. Lave, C. Biermann, and S. Lane. Palgrave Handbooks. Cham: Palgrave Macmillan.

Grabowski, Z., **M. Matsler**, S. Kidd, A. Denton, M. Rozance. “[Guest Article: Restoration \(P\)FESTS – a new framework for practice and research,](#)” Cascadia Restoration and Management News: The Newsletter of the Society for Ecological Restoration Northwest, August 2016.

Matsler, M. “A Municipal Case Study: Portland, Oregon”, in Nolon, J., *Protecting the Local Environment Through Land Use Law: Standing Ground*. Washington, D.C: Environmental Law Institute, 2014. 291.

Matsler, M. “An Exploratory Study of Current Restoration Worldviews in the Pacific Northwest,” The Newsletter of the Society for Ecological Restoration Northwest, October 2012.

Kidd, S., **M. Matsler**, B. Mohammed, & J. Schoenen. 2013. “Chapter 3.1: Water”, *Urban Regions in the Delta: Water, health, development*. Ed. Noortje ter Berg. Nijmegen: Radboud Honours Academy, 2012. 33-37.

- Kidd, S. & **M. Matsler**. 2013. "Chapter 2.3: Ecosystem Services Concept", *Urban Regions in the Delta: Water, health, development*. Ed. Noortje ter Berg. Nijmegen: Radboud Honours Academy, 2012. 28-31.
- Friedlander, E., J. Gabriel, **M. Matsler**, D. Miley, K. Schindall, & M. Stylos-Allan. *Productive Urban Landscapes*. New York: AECOM, 2010.
- Matsler, M.** "Winchester Bay Coastal User Survey: A look at the intersection of recreational use and renewable energy project siting on the Oregon coast." Submitted to Douglas County on behalf of the Surfrider Foundation, December 2009.
- Matsler, M.** "China's Environment and Globalization: Unexpected Connections." *Lectures on China's Environment, Yale F&ES Publication Series Report Number 20*. Ed. Xuhui Lee. New Haven: Yale School of Forestry & Environmental Studies, 2009. 29-43.

Conference Participation

Oral Presentations

- Matsler, M.**, M. Malone, & E. Rivers. "Designer Soils: a critical physical geography analysis of engineered soils for green stormwater infrastructure." Invited talk in *Unruly Soils* session at Association of American Geographers (AAG) Annual Meeting. New Orleans, LA, April 2018.
- Matsler, M.** "Using the Eco-Techno Spectrum to examine the institutional challenges of green infrastructure development." Invited talk in *Connecting Green Infrastructure and Ecosystem Service Frameworks for Resilience and Sustainability in the Built Environment* session at National Council for Science and the Environment (NCSE) annual conference: The Science, Business, and Education of Sustainable Infrastructure. Washington D.C., January 2018.
- Matsler, M.** "Addressing the institutional challenges of green infrastructure development: The Eco-Techno Spectrum as organizing heuristic for interdisciplinary research." Ecological Society of America (ESA) Annual Conference. Portland, OR, August 2017.
- Matsler, M.** "Methodological bridges, shields, and scaffolding: working to treat the 'cognitive dissonance' of infrastructure studies." Association of American Geographers (AAG) Annual Meeting. Boston, MA, April 2017.
- Everett, G., J. Lamond, A. Morzillo, F. Chan, & **M. Matsler**. "Delivering Green Streets: an exploration of changing perceptions of bioswales in Johnson Creek Watershed." Invited talk at the Reed College 25 years of Johnson Creek watershed restoration: A synthesis of scientific and economic impacts Conference. Portland, OR, March 2017.
- Matsler, M.** "Making 'green' fit in a 'grey' city: Knowledge systems' challenges of green asset management." Invited paper at the Dimensions of Political Ecology Conference. Lexington, KY, February 2017.
- Matsler, M.** "Making 'green' fit in a grey city: Knowledge systems' challenges across the 'Eco-Techno' Spectrum of green infrastructure interventions." Invited talk in *Questioning the Anthropocene with Political Ecology and Critical Physical Geography (CPG)* session at Association of Pacific Coast Geographers (APCG) Conference. Portland, OR, October 2016.
- Matsler, M.** & E. Looper. "Making Green 'Fit' in a Grey City: the work of standards, codes, and classifications of nature in changing institutions and ecosystems in Portland, Oregon." Invited Paper at Association for Environmental Studies and Sciences (AESS) Conference: Science, Empathy, Collaboration, and Sustainability. Washington D.C., June 2016.
- Kidd, S., **M. Matsler**, A. Denton, M. Rozance, & Z. Grabowski. "Watershed Restoration: Bringing Together the Socio-Nature of Practice and Research." Symposium at the Society for Ecological Restoration (SER) NorthWest Regional Conference. Portland, OR, April 2016.
- Matsler, M.** & E. Looper. "Making 'green' fit in a grey city: the 'invisible' work of standards of nature in changing institutions and ecosystems in Portland." Invited Paper at the Association of American Geographers (AAG) Annual Meeting. San Francisco, CA, March 2016.

- Matsler, M.** & Kunec-North, M. "Valuing Green Infrastructure: The City of Portland's emerging Green Infrastructure Asset Management Process." Portland Climate Action Collaborative Symposium, City of Portland. Portland, OR, February 2016.
- Matsler, M.** & S. Kidd. "Approaches to Ecological Restoration: Using Q-methodology to Explore Scientific Worldviews in Practice." Society for Ecological Restoration (SER) World Conference. Manchester, England. August 2015.
- Matsler, M.** & S. Kidd. "Using Q-methodology to Explore Ecological Restoration Worldviews in Practice." Association for Environmental Studies and Sciences (AESS) Conference: Confronting Frontiers, Borders, and Boundaries. San Diego, CA, June 2015.
- Matsler, M.** & S. Kidd. "Restoring Socio-Ecological Systems: Exploring the Socio-Ecological Connectivity of Green Infrastructure Design and Maintenance." Urban Water and Flood Risk Management Symposium. Ningbo, Zhejiang, China. June 2015.
- F. Chan & **M. Matsler.** "Exploring cultural influences of communication among green infrastructure development and maintenance stakeholders in Portland, Oregon." Urban Water and Flood Risk Management Symposium. Ningbo, Zhejiang, China. June 2015.
- Matsler, M.** & S. Kidd. "An Exploratory Study of Current Restoration Worldviews." Association of American Geographers (AAG) Annual Meeting. Tampa, FL, April 2014.
- Matsler, M.** & S. Kidd. "Approaches to Ecological Restoration: Use of Q-method to explore current issues and future directions of human-nature interactions." Dimensions of Political Ecology Conference. Lexington, KY, February 2014.
- Matsler, M.** " 'Plug-and-Play' Ecology: Expertise and Perceptions of Nature in Green Stormwater Management." Society for the Social Studies of Science (4S) Annual Meeting. San Diego, CA, October 2013.
- Holmen (Kidd), S., **M. Matsler**, B. Mohammad, J. Schoenen, K. Cowan, & A. Yeakley. "Urbanizing delta regions: balancing water, health and economy." Portland State University Contribution to Radboud Honours Academy International Taskforce Project. ISS Seminar Presentation. Portland, Oregon, 2012.
- Matsler, M.** "Green Infrastructure and Ecosystem Services: Local Government Perspectives." Part of an Organized Session at the ACES Conference 2012: *Ecosystem Services Version 3.0: Valuation to Governance in Action*. Fort Lauderdale, FL, December 2012.

Poster Presentations

- Matsler, M.** "Making 'Green' Fit in a Grey City: Knowledge Systems' Challenges Across the 'Eco-Techno' Spectrum of Green Infrastructure Interventions." UREx SRN All-Hands Meeting. New York, NY, March 2017.
- Matsler, M.** " 'Plug-and-Play' Ecology? Exploring the Evolution of Green Infrastructure & the Role of Nature in the City." Portland State University's Symposium of Environmental Research. Portland, OR, November 2015.
- Matsler, M.** & M. Kunec-North. "[Valuing Urban Nature: The City of Portland's Emerging Green Infrastructure Asset Management Process](#)." Sustainability Project Showcase at the 8th Annual PSU Sustainability Celebration. Portland, OR, May 2015.
- Matsler, M.** "[Restoring or Replacing Ecosystem Services? The changing role of nature in infrastructure design and maintenance](#)." Yale F&ES Urban Ecosystem Services Symposium. New Haven, CT, Jan 2014.
- Matsler, M.** and S., Kidd. "Restoring Socio-Ecological Systems (SES): An Examination of the Socio-Ecological Drivers of the Restoration Process." Society for Ecological Restoration World Conference. Madison, WI, October 2013.

Matsler, M. “ ‘Plug-and-Play’ Ecology? Exploring the Evolution of Green Infrastructure & the Role of Nature in the City.” Iowa State University’s Workshop on Energy, Transportation, and Water Infrastructure: Policy & Social Perspectives. Ames, IA, July 2013.

Matsler, M. & S. Kidd. "Restoring Socio-Ecological Systems (SES): An Examination of the Socio-Ecological Drivers of the River Restoration Process." Portland State University Graduate Studies Research Symposium. Portland, OR, 2013.

Matsler, M. “ ‘Plug-and-Play’ Ecology? Exploring the Evolution of Green Infrastructure & the Role of Nature in the City.” Oregon State University Hydrophiles’ Annual Water Research Symposium. Corvallis, OR, May 2013.

Holmen (Kidd), S., **M. Matsler**, B. Mohammad, J. Schoenen, K. Cowan, & A. Yeakley. “Water, Health, and Economy: An Integrated Ecosystem Services Approach to Sustainable Development in Urbanizing Deltas.” Portland State University Contribution to Radboud Honours Academy International Taskforce Project. *Online video talk and poster presentation for the IGERT 2012 Competition*. Washington D.C, 2012.

Teaching Experience

Courses Developed

USP 399: [Urban Nature & Human Well-being](#) (Spring 2014)

- In-depth examination of the ecosystem services concept in urban areas

ESM 407/507: [Ecosystem Services: Research & Practice Seminar](#) (Winter 2015)

- Conceived of class as response to graduate student needs
- Petitioned for & received funding for out-of-state seminar speakers
- Coordinated logistics and hosting of speakers invited by graduate students

Guest Lectures

USP 311: Introduction to Urban Planning (May 2016)

- Environmental Sustainability & Urban Resilience lecture

HON 203: Honors Urban Ecology (November 2015, February 2016, April 2016)

- Led field trips of green infrastructure in Portland
- Focus on Observation & Field Notes as an important step in research proposal development

ESM 692: Foundations of Ecosystem Services (September 2014, November 2016)

- Urban Ecology lecture engaging urban-rural gradients, ecology *in vs of* the city, & disturbance regimes

Media Coverage

*July 2018: Podcast interview, “[Green Stormwater Management in Three U.S. Cities,](#)” Episode 12 of *Future Cities Podcast*.*

Community Involvement

Oct 2015-present: Health & Human Services Action Team Member, **Corvallis Sustainability Coalition**, Corvallis, OR.

August 2017, 2018: Bioswale Demo Team Volunteer, **Open Streets Corvallis**, Corvallis, OR.

May 2016: Mary’s Peak Alliance Field Trip Leader, **Alliance for Recreation and Natural Areas (AFRANA)**, Corvallis, OR.

Sept-Oct 2013, May-June 2014: Field-Trip Assistant, **Portland Public School/Portland State University GK12 Program**, Portland, OR.

*April 2012-June 2013: Stormwater Science Teacher, **Portland Public School/Portland State University GK12 Program**, Portland, OR.*

*March-June 2009, March-June 2010: Farm Program Teacher, **Yale Sustainable Food Project**, New Haven, CT.*