

LYNETTE L. DE SILVA (Maiden Name LUCAS)

College of Earth, Ocean, and Atmospheric Sciences
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Areas of Interest

Ms. de Silva's principal areas of interest include water conflict management, integrated watershed management, and the study of transboundary waters. Her research interests include the role of women in transboundary freshwater dispute resolution; and how adaptive water governance, resilience building, and transformation works in marginalized communities.

Qualifications

M.S. Geology, Indiana University, Indianapolis, Indiana
Thesis: Is There Strong Evidence Supporting Natural Attenuation of Chlorinated Solvents at the Uniontown Landfill?
Graduate Advisor - Dr. Gabriel M. Filippelli, Chair, Indiana University, Department of Earth Sciences, Indianapolis, IN

B.Sc. Geology, Brooklyn College of CUNY, Brooklyn, New York

Professional Activities

2023 – Social-Ecological Resilience and Transformation Thematic Group (SERT)
2020 – The Universities Partnership for Water Cooperation and Diplomacy
2018 – Women's Action Research Network (W.A.R.N.)
2009 – Universities Council on Water Resources (UCOWR) Board Lead Delegate for Oregon State University (OSU)
2009 – 2013 Universities Consortium on Columbia River Governance
1999 – 2008 Licensed Professional Geologist, Indiana (No. 2055; Expired).

Awards and Nominations

2021 OSU Ecampus Award *for Excellence in Online Teaching and Student Engagement* (Nominated only)
2019 Universities Council on Water Resources (UCOWR) Award *for Education and Public Service* (Nominated only)
2014 OSU Outreach and Engagement Vice Provost's Award *for Excellence in Strategic Impact*, for the Natural Resources Leadership Academy (Awarded)
2012 Best Credit Program and the Best Overall Program Awards at the Western Association of Summer Session Administrators Conference, in San Diego, for the Natural Resources Leadership Academy (Awarded)
2012 OSU Outreach and Engagement Vice Provost's Award *for Excellence in Strategic Impact*, for the Natural Resources Leadership Academy (Nominated only)

Certificates

2020	Collaborative Institutional Training Initiative (CITI) Responsible Conduct of Research: Social and Behavioral Responsible Conduct of Research Course.
2020	CITI Human Research: Social and Behavioral Research Investigators and Key Personnel Course.
2020	CITI Conflict of Interest: Oregon State University Conflict of Interest Course.
2020	OSU Ecampus <i>Developing an Online Course</i> Workshop. An intensive, 6-week online experience that guides developers in building course materials that are appropriate for an online environment.
2018	OSUs Certificate in Teaching and Learning for <i>Teaching Talks</i> A series of workshops that promotes research-based teaching approaches identified as effective in the scholarship of teaching.
2017	OSUs Certificate in Teaching and Learning for <i>Teaching Triads</i> A series of workshops that improves teaching through peer observation.

University Committees

2024 –	Advisory Committee for the online Geography MS
2024 – 2026	University Faculty Senator representing CEOAS (College of Earth, Ocean, and Atmospheric Sciences)
2024 –	Geography Instructor Search Committee Chair
2024 –	CEOAS Environmental Sciences Advisory Council
2022 –	CEOAS Peer Review of Teaching Committee
2022 –	CEOAS Graduate Programs Committee
2022 – 2023	WRGP Scholarship Committee
2022 – 2023	RA/FRA/SRA/SFRA Promotion Committee
2021 – 2022	Geography Instructor Search Committee
2020 – 2022	Geography Colloquium Committee
2020 – 2023	CEOAS Instructor Promotion Committee
2019 – 2020	Geography Program’s Retreat Planning Committee
2018 – 2019	Water Resources Graduate Program (WRPG) Laurels Scholarship Award Committee
2017 – 2018	Gakstatter Scholarship Review Committee
2017 – 2018	CEOAS Promotion and Tenure Committee
2016 – 2017	CEOAS Peer Review of Teaching Committee
2016 – 2017	Diversity Task Force
2011 – 2012	Natural Resources Leadership Academy Steering Committee
2011 – 2012	Natural Resources Leadership Academy Academic Committee
2010 –	Graduate Faculty for Water Resources Policy and Management Program
2010 –	Master of Natural Resources (MNR) Administrative Committee
2010 –	MNR Admissions Committee
2008 – 2009	Institute of Water and Watersheds (IWW) USGS Mini-Grant Review Committee.

Master’s Degrees Directed to Completion

As Main Advisor

- Kirwan, Christina (2024). “Master Negotiators and Creative Problem Solvers: A Survey of South African Women & Water-Use Case Studies.”
- Gilmartin, Shelby (2023). "Adopting existing stormwater infrastructure to meet urbanization and changing rainfall trends: a case study of library pond in Wilsonville, Oregon."

- Habley, Liz Alula (2019). “The Function of Gender in Collaborative Resource Management: An Analysis of Case Studies in the United States.”
- Eskelson, Mandy (2019). “Wildfire impacts to water quality: Animas River Watershed one year after the 416 Fire.”
- Eddy, Laura (2019). “Public Opinion of Baltimore’s Floating Wetlands – 2013 and 2019.”
- Whitley, Jamie (2019). “Laws, Regulations and Action Plans for per- and polyfluoroalkyl substances found in Michigan drinking water supplies.”
- Scagliotti, Alex (2019). “Whychus Creek Substrate Analysis: Quantifying Geomorphic Responses of Stream Restoration Projects – A Pilot Project.”
- Morgan-Hayes, Anna (2018). “Laws, regulations, and management plans to improve streamflow and stream temperature: A case study in the North Fork Burnt River Watershed.”
- Keller, Atley (2018). “Assessing County and Regional Planning for Legacy Impacts of Abandoned Mines.”
- Lee, Rory (2017). “Puget Sound Regional Nearshore Management: Assessing Nearshore Management at the Regional scale.”
- Leitermann, Lily (2016). “Eugene Residents Risk Perceptions of Water Availability.”

As Co-Advisor

- Yigit, Abdullah (2021). “An assessment of the policy narrative strategies of the pro- and anti-dam removal groups, in the Klamath River Basin, over the 2001-2020 time frame.”
- Henkels, Max (2019). “Planning for Failure? Addressing Outside Stakeholders in Collaborative Basin Planning.”

As Committee Member

Tekuya, Mahemud (2024); Fithian, MacKayla (2024); Miller, Ellie (2024); Mildenberger, Jacob (2023); Faqiryar, Jalal Naser (2023); Doty, Brent (2021); Claussen, Lauren (2021); Dickman, J. Colt (2020); Taganova, Jahan (2020); Fess, Rosemary (2019); Augustino, Alexandra (2019); Harris, Dominique (2018); Gregory, Ryan (2018); Mondo, Holly (2018); Winograd, Scott (2017); Finley, Jeannette (2017); Pritchard, Matthew (2017); Bell, Julia (2017).

Graduate Certificates Directed to Completion

As Main Advisor

Over 125 students.

Professional Experience

2006 – **Co-Director**, Program in Water Conflict Management and Transformation, OSU, Corvallis, Oregon. As assistant director (2006 - 2011) and now co-director, Ms. de Silva coordinates the administration and implementation of three focus area programs: the graduate/professional certificate program; the Transboundary Freshwater Dispute Database, an information technology/outreach program; and the University Partnership for Transboundary Waters, a collaborative research program. This involves contributing to issues of topical scientific and societal importance; adding to state, national, and international visibility; consolidating programmatic cores and teaching missions; and recruiting graduate students, evaluating student applications, coordinating student admissions with the graduate faculty, and monitoring student progress.

- 2009 – **Senior Instructor II**, OSU, Corvallis, Oregon. As instructor (2009 - June 2019), Senior Instructor I (July 2019 – June 2023) and now Senior Instructor II for OSU's Geography Program, and Water Resources Graduate Program Corvallis, Oregon, Ms. de Silva teaches the following courses, to university graduates and undergraduates:
- GEOG 241 – *Transforming Environmental Conflicts* (2020 – Present; via remote delivery; and online 2021 – Present)
 - GEOG 340 – *Introduction to Water Science and Policy* (2012 – Present; online and on campus; formally GEO 335/SOIL 335)
 - GEOG 440/540 – *Conflict, Cooperation, and Control of Water in the US* (2009 – Present; online; formally GEO 425/GEO 525)
 - GEOG 441/541 – *The World's Water* (2019 – Present; online)
 - WRP 510 – *Internship in Water Resources* (2009 – Present; online and on campus).
 - WRP 521 – *Water Conflict Management and Transformation* (2011 – Present; online and on campus).
 - WRP 548: *Conducting Collaborative Projects* (2016 – 2022; on campus).
- 2011 – 2012 **Director**, Natural Resources Leadership Academy, OSU, Corvallis, Oregon, Ms. de Silva led the initiation of a Natural Resources Leadership Academy (NRLA), at OSU. During her directorship, the academy won the 2012 Best Credit Program and the Best Overall Program Awards at the Western Association of Summer Session Administrators Conference, in San Diego. She was also a nominee for the 2012 OSU-Vice Provost's Award for Excellence. And, in 2014, she received the Outreach and Engagement Vice Provost's Award for *Excellence in Strategic Impact* for this program. The NRLA invites professionals and graduate students from across the state, nation and internationally to participate in summer coursework designed to enhance leadership skills and scientific expertise to meet the global demand for effective natural resources management.
- 2010 – 2015 **Program Coordinator**, Increasing Diversity in Earth Sciences Program, at OSU. de Silva was instrumental in the NSF tiered mentoring program, geared to increase the number of students from under-represented groups who pursue careers in Earth Science research and education by working with 41 juniors and sophomores from OSU, PSU and five Oregon community colleges; representing four annual cohorts. She arranged matches for mentees (and their interests), with appropriate potential mentors; and provided students with support and resources, as needed. She helped build camaraderie and a strong cohort and assisted in building capacity through advising and mentoring on career-related topics. This program and a few of her contributions are featured on the cover page and on pages 6-9 of 2016, CEOAS, *Mentorship Matters: Increasing Diversity in Earth Sciences Program nurtures undergraduates*, Elements Magazine, Winter 2016.
- 2002 – 2006 **Research Engineer**, Energy and Environmental Research Center, University of North Dakota, Grand Forks, North Dakota. Ms. de Silva managed the terrestrial component of the Plains CO2 Reduction (PCOR) Partnership. This involved the management of projects that investigated and quantified carbon in soils and various ecosystems in the

northern Great Plains. She also focused on finding potential funding opportunities for sequestering carbon in the region that promoted the use of selective land and water management practices. In this capacity, de Silva also worked on flood mitigation in the Red River Basin, the Waffle Project. She conducted public outreach to congressional staff members, county commissioners, water boards, and the general public on the progress of the study to further discussions on water-related issues and transboundary water concerns. She was instrumental in the development of a portal to data sets and resources that focused on Red River Basin flood protection.

- 1994 – 2001 **Geologist**, Indiana Department of Environmental Management, Indianapolis, Indiana. Ms. de Silva served as a project manager in the Resource Conservation Recovery Act (RCRA) Corrective Action program, where she oversaw remediation of contaminated operating industrial facilities. This involved inspections and investigations to ensure compliance with regulator requirements; preparing comprehensive environmental assessments of the hazardous waste facilities; identifying sources of soil and groundwater contamination; reviewing plans and overseeing remediation and removal of hazardous waste; and making preliminary determinations of exposure pathways to evaluate most likely scenarios for harm to human health and the environment.
- 1989 – 1990 **Geophysical Librarian**, Chevron Company, Houston, Texas. Ms. de Silva’s responsibilities included acting as support staff to geophysicists, documenting and classifying seismic data, and initiating and implementing a procedure manual for the geophysical library. Additional tasks included indexing offshore data and entering it into the database.
- 1984 – 1989 **Research Assistant**, Lunar and Planetary Institute and University of Houston, Houston, Texas. Ms. de Silva’s responsibilities included interpreting LANDSAT imagery, now published; drafting a geologic map of Jamaica; and researching, compiling, and digitizing a map of world plate boundaries. Other tasks included proofreading and editing geological manuscripts, now published in scientific journals, and preparing grant proposals and submitting quarterly reports to federal agencies.

Project

- Jan-June
2015 **Intern**, U.S. Army Corps of Engineers (USACE) Research Participation Program. de Silva was tasked with finding complex water resources cases studies around the Pacific Northwest (PNW). Overseeing a graduate student, they researched case studies that would require interdisciplinary approaches to long-term sustainable water management; particularly projects requiring hydrogeology, engineering, ecological, economical, and social approaches to water resources management. These problems would be used to introduce graduate students to ‘real-world’ challenges and approaches to solving them. And, would be utilized by Dr. Michael Campana during summer 2015, when delivering his *Applied Water Resources Problem Solving* Course. Once refined, it would be utilized in following summers, by an international student body, as part of the new joint UNESCO-IHE/University of Peace/OSU graduate program in Water Cooperation and Peace.

Successful Proposals, Contracts and Memorandums of Understanding (MOU)

- In partnership with University of Delaware, Land and Resources Focus for Bridging Insights Project: Why It Worked. Coordinated by Center for Public Leadership, Harvard Kennedy School. \$10,000. 2022-2023.
- Wrote two successful proposals between Dec 2016 – Jan 2017, to provide Water Conflict Management and Transformation students with a wider array of topics within each designated theme, from which to design a program of study that meets their professional goals for the:
 - Graduate Minor Water Conflict Management and Transformation
 - Graduate Certificate Water Conflict Management and Transformation
- Accompanied by Brenda McCombs, *former* Dean of the Graduate School, de Silva attended meetings on behalf of OSU and the Water Resources Graduate Program, held at the University for Peace, Costa Rica, September 2014. These meetings were instrumental in expediting the crafting of the Memorandum of Agreement for the Joint Education Programme: Water Cooperation and Peace, with UNESCO-IHE and the University for Peace. This program was officially launched April 2015.
- MOU between the Han River Watershed Management Committee of the Republic of Korea and the Institute for OSU’s Water and Watersheds. March 25, 2014.
- Transboundary Waters Assessment Project – The River Basins Component. Coordinated by DHI. \$94,000. 2013-2015.
- “Enhancing the Institutional Capacity of Managing Water in the West.” U.S. Bureau of Reclamation. \$120,000. 2010-2011.
- “African Ministers Council on Water (AMCOW) Capacity Development Program.” Environmental Law Institute. \$20,000. 2010-2012.
- Category II – “Initiation of an Instructional Program Leading to A Graduate Minor in Water Conflict Management and Transformation.” Spring 2010.
- “Furthering IWMI-OSU cooperation on transboundary water research.” The International Water Management Institute (IWMI). \$15,000. 10/15/2009 through 03/15/2010.
- “The Geography, Geology and Hydropolitics of Israel and Palestine.” OSU L. L. Stewart Faculty Development Award. \$2,195. Winter Term, 2009.
- “Water Anchor: Adaptation to Climate Change in the Water Sector,” submitted to the World Bank for \$70,000 in October 2008.
- Category I – “Proposal for the Initiation of a New Instructional Program Leading to A Graduate Certificate in Water Conflict Management and Transformation.” Fall 2008.
- MOU between the Department of Geosciences and OSU Extended Campus. OSU Extended Campus. \$75,000. Effective September 2008.
- “Upgrading the Transboundary Freshwater Dispute Database.” The International Water Management Institute, \$27,000. 09/01/2007 - 08/30/2008.
- MOU between the Institute for Water and Water Resources, US Army Corps of Engineer, and the State of Oregon acting by and through OSU for the Institute for Water and Watersheds. The International Center for Integrated Water Resources Management (ICIWaRM). September 20, 2007.

Publications

- Ali, Saleem H.; Boyer, Nancy; Mundaca, Gabriela; Jabalameli, Shaghayegh, **de Silva, Lynette**; and Taganova, Jahan. The Role of Land and Natural Resources in Negotiating Peace Agreements. *Negotiation Journal* special issue. (*In review*)

- **de Silva, Lynette**, Jahan Taganova, Jalal Naser Faqiryar, Mira Dzhakshylykova Utkir Adkhamov, Dina Kaskina. Two Water Conflicts: North Crimea Canal & Kabul River Basin. (*In review*)
- **de Silva L.**, and Wolf, A.T. Water as a Source of Cooperation for Water. *In Routledge Water Diplomacy Handbook (In Press)*.
- Turgul, A., McCracken, M., Schmeier, S., Rosenblum, Z. H., **de Silva, L.**, & Wolf, A. T. 2024. Reflections on transboundary water conflict and cooperation trends. *Water International*, 49(3–4), 274–288. <https://doi.org/10.1080/02508060.2024.2321727>
- **de Silva L.** 2022. Water Insecurities in Two African American Communities, *in de Silva L.* and Maser, C. (eds). *Resolving Water Conflicts Workbook*, CRC Press/Taylor and Francis Group, LLC, Boca Raton, FL. pp. 252.
- **de Silva L.** 2022. Water Conflict Transformation, *in de Silva L.* and Maser, C. (eds). *Resolving Water Conflicts Workbook*, CRC Press/Taylor and Francis Group, LLC, Boca Raton, FL. pp. 252.
- **de Silva L.** 2022. Introduction, *in de Silva L.* and Maser, C. (eds). *Resolving Water Conflicts Workbook*, CRC Press/Taylor and Francis Group, LLC, Boca Raton, FL. pp. 252.
- **de Silva L.** 2022. Conclusion, *in de Silva L.* and Maser, C. (eds). *Resolving Water Conflicts Workbook*, CRC Press/Taylor and Francis Group, LLC, Boca Raton, FL. pp. 252.
- **de Silva L.** and Maser, C. (eds). 2022. *Resolving Water Conflicts Workbook*, CRC Press/Taylor and Francis Group, LLC, Boca Raton, FL. pp. 252. (Access at <https://tinyurl.com/ycknc3dt>)
- **de Silva L.** and Wolf, A.T. 2021. Chapter 7.10 Transformative Practices for Water Diplomacy, *in Bogardi, J.J., Tingsanchali, T., Nandalal, K.D.W., Gupta, J., Salamé, L., van Nooijen, R.R.P., Kolechkina, A.G., Kumar, N., Bhaduri A.* (eds). *Handbook of Water Resources Management: Discourses, Concepts and Examples*. Springer (Access at <https://www.springer.com/gp/book/9783030601454>)
- Maser, C. and **de Silva L.** 2019. *Resolving Environmental Conflicts: Principles and Concepts*, Third Edition, CRC Taylor and Francis Group, LLC, Boca Raton, FL. pp. 234. (Access at <https://tinyurl.com/y4bfeot8>)
- **de Silva L.**, Veilleux J.C., Neal M.J. 2018. The Role of Women in Transboundary Water Dispute Resolution, *in Fröhlich C., Gioli G., Cremades R., Myrtilinen H.* (eds). *Water Security Across the Gender Divide. Water Security in a New World*. Springer, Cham (Access at <https://rdcu.be/dtcXy>)
- de Silva, S., Carter, D., Eriksson, S., Guerrero E., **de Silva, L.**, Duncan, R., & Wright, D. Broadening participation in the Geosciences through increasing opportunity and access for transfer students from 2-year colleges to 4-year colleges and universities: Insights from recent efforts in Oregon. (*Unpublished*)
- de Silva, S.L., Guerrero, E.F., Duncan, R.A., **de Silva, L.**, and Eriksson, S.C., 2014. Increasing Diversity in the Earth Sciences - Impact of the IDES Program in Oregon American Geophysical Union, Fall Meeting 2014, abstract id. ED34B-05
- McCaffrey, S. C.; Paisley, R. K.; **de Silva, L.**; Wolf, A. 2012. The Columbia River Treaty in 2014 and Beyond: International Experiences and Lessons Learned, *in Transboundary River Governance in the Face of Uncertainty: The Columbia River Treaty – A Project of the Universities Consortium on Columbia River Governance*, edited by Barbara Cosens. Corvallis, OR: Oregon State University Press, 2012.
- Cosens, B; **de Silva, L.**; Sowards, A. M. 2012. Introduction to Parts I, II, and III, *in Transboundary River Governance in the Face of Uncertainty: The Columbia River Treaty –*

- A Project of the Universities Consortium on Columbia River Governance, edited by Barbara Cosens. Corvallis, OR: Oregon State University Press, 2012.
- de Silva, S.L., Duncan, R.A., Wright, D.J., **de Silva, L.**, Guerrero, L., 2011. Increasing Diversity in the Earth Sciences (IDES) - An Oregon Effort. American Geophysical Union, Fall Meeting 2011, abstract id. ED22A-02
 - De Stefano, L.; Edwards, P.; **de Silva, L.**; Wolf, A. 2010. Tracking cooperation and conflict in international river basins. Historic and recent trends, *Water Policy*, Vol. 12, No. 6. pp 871-884.
 - **de Silva, L.** edited and managed the production of book entitled, “Hydropolitical Vulnerability and Resilience Along International Waters: Asia.” Wolf, A., ed. Nairobi: UN Environment Programme, 2009.
 - **de Silva, L.** edited and managed the production of book entitled, “Hydropolitical Vulnerability and Resilience Along International Waters: Europe.” Wolf, A., ed. Nairobi: UN Environment Programme, 2009.
 - **de Silva, L.** edited and managed the production of book entitled, “Hydropolitical Vulnerability and Resilience Along International Waters: North America.” Wolf, A., ed. Nairobi: UN Environment Programme, 2009.
 - **de Silva, L.**; Van der Zaag, P. 2009. Educational Strategies: An Integrative Approach to Water Relations. Unpublished document. Presentation at the 2009 World Water Week, Stockholm, Sweden.
 - De Stefano L.; **de Silva L.**; Edwards P.; Wolf, A. 2009. Updating the International Water Events Database. From Potential Conflict to Cooperation Potential (PC-CP) series. UNESCO. World Water Assessment Programme. Side publications series. Dialogue Paper. Published by the United Nations Educational, Scientific and Cultural Organization.
 - Peck, W.D.; Harju, J.A.; O’Leary, E.A.; Smith, S.A.; Sorensen, J.A.; Steadman, E.N.; Nelson, C.R.; **de Silva, L.L.** Plains CO2 Reduction (PCOR) Partnership Atlas; PCOR Partnership Atlas for U.S. Department of Energy and multicients; Energy & Environmental Research Center: Grand Forks, ND, 2005.
 - **de Silva, L.L.**; Cihacek, L.J.; Leistritz, F.L.; Faller, T.C.; Bangsund, D.A.; Sorensen, J.A.; Steadman, E.N.; Harju, J.A. The Contribution of Soils to Carbon Sequestration; Plains CO2 Reduction (PCOR) September 20, 2007, Forks, ND, August 2005.
 - Steadman, E.N.; Sorensen, J.A.; Reilkoff, T.E.; O’Leary, E.M.; **de Silva, L.L.**; Jensen, M.D.; Harju, J.A. The Plains CO₂ Reduction (PCOR) Partnership: Identifying and Developing Greenhouse Gas Sequestration Opportunities in the North American Great Plains. In Proceedings of Western Fuels Symposium: 19th International Conference on Lignite, Brown, and Subbituminous Coals; Billings, MT, Oct 12–14, 2004.
 - Wang, X.; Groenewold, G.H.; Steadman, E.N.; Bolles, B.A.; Peck, W.D.; **de Silva, L.L.**; Dokken, H.M. A Coupled Hydrologic-Hydraulic Model for Flood Reduction Analysis in the Red River of the North Basin. Presented at the 1st International Water Conference, Moorhead, MN, April 23–24, 2003.
 - Burke, K., and **Lucas, L.**, 1989, Thrusting on the Tibetan plateau within the last five MA., in Sengor, A.M.C., Tectonic evolution of the Tethyan region: Kluwer, p. 507–512.
 - **Lucas, L.** et al., 1989, A map of the faults at Plate Boundaries: EOS, v. 70, no. 15, p. 469.

Workshops, Presentations and Posters

- **de Silva, L.** Presented a pre-recorded lightning talk entitled, *Adaptive water governance, resilience building or transformation?* At the *Speaking with an Unbroken Tongue: Exploring*

and Celebrating the Language and Culture of Gullah Geechee People and the African Diaspora Conference at Coastal Carolina University on Feb 22-24, 2024.

- **de Silva, L.** Invited to speak at OSU Environmental Sciences Orientation Course (ENSC 101). Talk is entitled, *It's a Process!* Held at OSU Gilfillan Auditorium, November 3, 2023.
- **de Silva, L.** Invited to speak at Rotary Club of Corvallis. Talk is entitled, *The Role of Women in Transboundary Water Dispute Resolution*. Held at Community Hall, in Good Samaritan Episcopal Church. November 2, 2023.
- **de Silva, L.** Invited to speak at OSU Environmental Justice Course (GEOG 333) Geography Colloquium, on *Transformative Water Conflict Analysis: The Vanport Case Study*, held in Covell Hall room 221, May 22, 2023.
- **de Silva, L.** Designed a MOOC on *Water Diplomacy Tools: Reframing* for Universities Partnership for Water Cooperation and Diplomacy. Completed February 22, 2023.
- **de Silva, L.** Speaker on *What is missing from transboundary water datasets?* Online Engagement Session: MOOC on Governance for Transboundary Freshwater Security “Using data in transboundary water management & negotiation.” Hosted by OSU Transboundary Freshwater Dispute Database in Collaboration with Global Water Partnership. Held via Zoom, November 2, 2022.
- **de Silva, L.** Keynote Speaker on *What about Mediation and biodiversity?* At World Mediation Forum. XIth Conference – Current Conflicts of Humanity: New Challenges for Mediation. Held online October 25, 2022.
- **de Silva, L.** Invited to speak at OSU Environmental Sciences Orientation Course (ENSC 101). Talk is entitled, *It's a Journey!* Held at OSU Gilfillan Auditorium, October 21, 2022
- **de Silva, L.** Invited as a guest lecturer to present on *Resolving Environmental Conflicts: the role of women in transboundary water dispute resolution*, by the Department of Geography and Spatial Sciences, University of Delaware for a Peace and Justice Studies: An Intro Course, held via Zoom, April 7, 2022.
- **de Silva, L.** Invited as a distinguished speaker on water security for the Fall Environmental Security Thought Leadership and Networking Series. Talk is entitled, *Sharing Transboundary Waters: Tools, Techniques and Tips*, at the Elliott School of International Affairs at The George Washington University, held via Zoom, October 7, 2021
- **de Silva, L.** Invited to speak at OSU Environmental Sciences Orientation Course (ENSC 101). Talk is entitled, *It's a Journey!* Held at OSU Gilfillan Auditorium, October 29, 2021
- **de Silva, L.** Invited as a distinguished speaker on water security for the Fall Environmental Security Thought Leadership and Networking Series. Talk is entitled, *Sharing Transboundary Waters: Tools, Techniques and Tips*, at the Elliott School of International Affairs at The George Washington University, held via Zoom, October 7, 2021.
- **de Silva, L.** Designed a MOOC on *Water Cooperation and Diplomacy: the role of women in transboundary water dispute resolution* for Universities Partnership for Water Cooperation and Diplomacy. Completed May 2, 2021.
- **de Silva, L.** Invited to speak at OSU Honor's College Event hosting Alumni in Texas, on *The Role of Women in Water Management*, held via Zoom, March 17, 2021.
- **de Silva, L.** Invited to speak at Oregon State University Geography Colloquium, on *Transformative Water Conflict Analysis: The Vanport Case Study*, held via Zoom, February 12, 2021.
- **de Silva, L.** Invited to speak at American Water Resources Association Webinar, on *Women & Water Conflicts*, held via Zoom, January 13, 2021.

- **de Silva, L.** Invited to speak at Whitman College – Geology Department, Senior Seminar Series, on *Fostering Water Cooperation*, held via Zoom, October 5, 2020.
- **de Silva, L.** Invited to speak at OSU Water Café - Calculating the Blue Peace Index, on *The Columbia River Basin*, held at OSUs Strand Ag. room 212, February 12, 2020.
- **de Silva, L.** Invited to speak as a guest lecturer, for an OSU graduate course entitled, “Excelling in an Interdisciplinary Team” on *Conflicting and Converging Insights*, held at OSUs Heckart Lodge room 110, February 3, 2020.
- **de Silva, L.** Invited to speak at OSU Water Resources Seminar Series, on *The Role of Women in Transboundary Water Dispute Resolution*, held at OSUs Bexell Hall room 328, October 2, 2019.
- **de Silva, L.** Moderator for the *Deeper Than Science: A Panel of Environmental Ethics Perspectives*, part of the Oregon Climate Change Nexus - Need for Extreme Unity for Sustainability Series, held at OSUs Memorial Union Ballroom, April 24-25, 2019.
- **de Silva, L.** Presented *Water Transformative Tools You Can Use*. A breakout workshop, at the 9th Annual Pacific Northwest Water Research Symposium, hosted by the OSU Hydrophiles, OSUs CH2M Hill Alumni Center, Corvallis, Oregon, April 8, 2019.
- **de Silva, L.** Invited to present, *The Program in Water Conflict Management and Transformation*, at the OSU150 Land Grant Festival - Celebrating Global Impact, at LaSells Stewart Center on October 15, 2018.
- **de Silva, L.** Presented *Honing Water Cooperative Skills through the Vanport Mosaic*. A breakout workshop, at the 8th Annual Pacific Northwest Water Research Symposium, hosted by the OSU Hydrophiles, OSUs CH2M Hill Alumni Center, Corvallis, Oregon, April 23, 2018.
- **de Silva, L.** Invited as a panelist at session, *Identifying Possible Solutions*, 2017 AWRA Washington State Conference, Mountaineers Seattle Program Center, Seattle, Washington USA, October 3, 2017.
- **de Silva, L.** Invited as a panelist at the *Water connects - Cooperative solutions and best practices without borders*, the Women’s Forum, Budapest Water Summit 2016, Millenáris Park, Budapest, Hungary, November 29-30, 2016.
- **de Silva, L.** Water Diplomacy and the Four Worlds. An oral presentation given at the Fall 2013 OSU Water Resources Seminar Series: Human Dimensions of Water. Held at OSU, Corvallis, Oregon, October 2, 2013.
- **de Silva, L.** How do we manage governance through Eflows? Invited to give an oral presentation at the session entitled, Eflows - Bridging Climate, Political and Institution Borders, held at the World Water Week, Stockholm, Sweden, September 5, 2013.
- **de Silva, L.** Paths to managing and transforming conflict management. Invited to give an oral presentation, at International Water Management Institute (IWMI), Battaramulla, Sri Lanka, July 2, 2013.
- **Skills-Building Workshop** (facilitated and taught): UNESCO “Train the Trainer” Shared Waters Training Manual Course for senior water professionals from Ethiopia, Kenya, Djibouti and Burundi. Workshop held as part of the 34th Greater Horn of Africa Climate Outlook Forum in Addis Ababa, Ethiopia, May 30 – 31, 2013.
- **de Silva, L.** Invited to speak on *How to add intangible values to the water management equation*, at The 6th World Water Forum on The Relevance of “Intangible” Values in IWRM Marseille, France, March 15, 2012.

- **de Silva, L.L.** Water Conflict Management and Transformation & Basins at Risk. An oral presentation and workshop on Water: The Key to Regional Stability, held at University of South Florida, Tampa, FL, September 27-29, 2010.
- **de Silva, L.L.** Program in Water Conflict Management & Transformation Program in Water Conflict Management & Transformation. An oral presentation at the Got Water? Managing It for the Future: A Forum Our Regional Water Supply, held at the First Unitarian Church, Portland OR, June 4 – 5, 2010.
- **de Silva, L.L.** Boundless Basins: What are the successes and failures of hydro-solidarity? An oral presentation at the 5th World Water Forum, Istanbul, Turkey, March 16 – 22, 2009.
- **de Silva, L.L.** UPTW Programme in Transboundary Groundwater: Umatilla Basin, USA. An oral presentation at the 5th World Water Forum, Istanbul, Turkey, March 16 – 22, 2009.
- **de Silva, L.L.** Transboundary aquifers (Part 3). Moderator of this special session hosted by the Universities Partnership for Transboundary Waters at the 13th International Water Resources Association World Water Congress, Montpellier, France, September 1–4, 2008.
- **de Silva, L.L.** Program in Water Conflict Management & Transformation. An oral presentation. Also, acted as moderator at the 2008 Universities Council on Water Resources/The National Institutes for Water Resources Annual Conference. International Water Resources: Challenges for the 21st Century and Water Resources Education, Durham, NC, July 22–24, 2008.
- **de Silva, L.L.** The Certificate in Water Conflict Management and Transformation. An oral presentation at the 2008 UCWR/NIWR Annual Conference, International Water Resources: Challenges for the 21st Century and Water Resources Education, Durham, NC, July 22–24, 2008.
- MacQuarrie, P.; **de Silva, L.L.**; Santelmann, M.V.; Wolf, A.T.; Eidem, N. An Integrated Program to Inform Water Policy and Conflict Management. Poster presentation at the 7th Biennial Conference on University Education in Natural Resources, Oregon State University, Corvallis, Oregon, March 13-15, 2008.
- **de Silva, L.L.** The Transboundary Freshwater Dispute Database. An abstract in the International Network of Basin Organizations Newsletter, in Volume 16, December 2007–January 2008.
- MacQuarrie, P.; **de Silva, L.L.**; Santelmann, M.V.; Wolf, A.T.; Eidem, N. An Integrated Program to Inform Water Policy and Conflict Management. Poster presentation at Water in the Pacific Northwest: Moving Science into Policy and Action, Annual Conference, Stevenson, Washington, November 7-9, 2007.
- **de Silva, L.L.** Kurz, M., Bolles B.; Williams, K.; Maki, C.; Johnson J. The Impact of Short-Term Water Storage on Agriculture - A Field Demonstration. Oral presentation and abstract at the American Water Resources Association, Annual Conference, Seattle, Washington, November 7–10, 2005.
- **de Silva, L.L.**; Peck, W.D.; Bolles, B.A.; Wang, X.; Dokken, H.M.; Groenewold, G.H.; Steadman, E.N. Utilization of GIS in Flood Mitigation. A Case Study in the Red River Basin of the North America. Poster at the International Conference of GIS and Remote Sensing in Hydrology, Water Resources, Environment; Yichang, China, Sept 16–19, 2003.
- Bolles, B.A.; Wang, X.; **de Silva, L.L.**; Dokken, H.M.; Groenewold, G.H.; Peck, W.D.; Steadman, E.N. An Innovative, Basinwide Approach to Flood Mitigation: The Waffle Project. Presented at the International Conference of GIS and Remote Sensing in Hydrology, Water Resources, Environment; Yichang, China, Sept 16–19, 2003.

- Wang, X.; Groenewold, G.H.; Steadman, E.N.; Bolles, B.A.; Peck, W.D.; **de Silva, L.L.**; Dokken, H.M. WaffleSM: An Innovative Integrated Watershed Management Practice. Presented at the Eighth National Watershed Conference, Council Bluffs, IA, June 6–11, 2003.
- Burke, K., and **Lucas, L.**, 1989, Thrusting on the Tibetan plateau within the last five MA., in Sengor, A.M.C., Tectonic evolution of the Tethyan region: Kluwer, p. 507–512.
- **Lucas, L.** et al., 1989, A map of the faults at Plate Boundaries: EOS, v. 70, no. 15, p. 469.

Synergistic Activities

1. Initiated CEOAS contributing to funds to print a second Vanport Mosaic Exhibit, that deepens our understanding of the experiences of disenfranchised communities; and tells the history of the Vanport catastrophe that informed the Columbia River Treaty and water management along the Columbia River.
2. Attended the *Coastal Cultures Conference 2024: Gullah/Geechee & Biodiversity* at Penn Center, Saint Helena Island, South Carolina on April 3-6, 2024.
3. Attended the *Speaking with an Unbroken Tongue: Exploring and Celebrating the Language and Culture of Gullah Geechee People and the African Diaspora* Conference at Coastal Carolina University, South Carolina on Feb 22-24, 2024.
4. Attended a Tribal Government training for natural resources professionals entitled, *Government to Government Training Workshop*. Held at Kaku-Ixt Mana Ina Haws on November 20, 2023.
5. Hosted the Vanport Mosaic Exhibit in OSUs CEOAS 193 Burt Hall - Reception Areas, Corvallis, Oregon, October 18-26, 2023. [*The exhibit tells the story of the historic Vanport flood that washed away the most populous black community, in Oregon*].
6. Acted in role play on MOOC for *Water Diplomacy Tools: Shared Values* for Universities Partnership for Water Cooperation and Diplomacy. Completed February 22, 2023.
7. Assisted OSU Department of Physics in their review of an instructor for promotion to Senior Instructor I, process completed on November 30, 2022.
8. Reviewed a manuscript for the International Journal of Water Resources Development. Completed on October 31, 2022.
9. Hosted the Vanport Mosaic Exhibit in OSUs Lonnie B. Harris Black Cultural Center, Corvallis, Oregon, October 28-29, 2022 [*The exhibit tells the story of the historic Vanport flood that washed away the most populous black community, in Oregon*].
10. Hosted the Vanport Mosaic Exhibit in OSUs CEOAS 193 Burt Hall - Reception Areas, Corvallis, Oregon, October 25-27, 2022. [*The exhibit tells the story of the historic Vanport flood that washed away the most populous black community, in Oregon*].
11. Designed a module for massive open online courses for a general audience through the Universities Partnership for Water Cooperation and Diplomacy on the topic of the role of women in transboundary water governance, May 2022.
12. Co-taught Conflict Transformation Module, as part of a Water Conflict Negotiation and Mediation Course through IHE Delft Institute for Water Education. Training held through IHE eCampus and Zoom platforms: May 10-14, 2021 and April 20-24, 2020.
13. Developed the online version GEOG 241 – *Transforming Environmental Conflicts Course*, winter term, 2021. Co-developed the on campus version An intensive, 6-week online experience that guides developers in building course materials that are appropriate for an online environment.
14. Co-developed the campus version of GEOG 241 – *Transforming Environmental Conflicts Course*, summer term, 2020.

15. Participated in the Gullah/Geechee Sustainability Think Tank in a virtual interactive *Coastal Cultures Conference: Climate, Rising Sea & Cultural Sustainability* via Zoom on March 13, 2021.
16. Participated in roundtable discussions on *Community Resilience to Climate Change*, held through the Universities Council on Water Resources, Southern Illinois University, Carbondale, via Zoom on October 14, 2020.
17. Attended the *Without Borders: Tracing the Cultural, Archival and Political African Diaspora*. An international Gullah Geechee and African Diaspora Conference at Coastal Carolina University on March 4-7, 2020.
18. Attended the Social Justice Education Initiative workshop Session Two for CEOAS faculty. Held May 25, 2018, 8:00am to 12:30 pm in 193 Burt Hall. Taught by Jane Waite.
19. Attended the Social Justice Education Initiative workshop Session One for CEOAS faculty. Held April 23, 2018, 12:30 pm-4:30 pm in 311 Strand Ag Hall. Taught by Jane Waite.
20. Assisted OSU Department of Fisheries and Wildlife in their review of an instructor for promotion to Senior Instructor, process completed on October 5, 2019.
21. Designed a Canvas *Water Conflict Management Studio* to provide a roadmap for Certificate students for completing the Water Conflict Management and Transformation Certificate Program requirements. In addition, it's designed as a resource platform to facilitate greater connectivity: (1) Among Certificate students (on campus and online); (2) Towards transitioning to OSU programs that might be of interest to students; and, (3) To water-related opportunities (job postings, webinars, on-campus clubs). June 28, 2018.
22. Participated in the Bus Tour of the Former Vanport Site; and the Forum: Lessons from Vanport and Katrina – A dialogue to create community resilience during extreme weather conditions. Held at Portland Expo Center, Oregon, on May 28, 2018.
23. Hosted the Vanport Mosaic Exhibit in OSUs Lonnie B. Harris Black Cultural Center, Corvallis, Oregon, April 24-25, 2018. [*The exhibit tells the story of the historic Vanport flood that washed away the most populous black community, in Oregon*].
24. Participated in the *Supporting and Advancing Geoscience Education at Two-Year Colleges (SAGE 2YC) Regional Earth Science Teaching Workshop Floods of Change: The Vanport Floods, Stereotype Threat and 2YC-4YC Transfer*, held at Portland State University on Saturday January 27, 2018.
25. Starting Spring 2017, de Silva voluntarily assumed the role of OSU Geography Social Chair. In this capacity, de Silva organized and hosted the *GEOG 2017 Spring Social - Welcome Back! Let's Anew with Fondue*, an informal social gathering, to welcome all geography students and faculty back after Spring Break; and the socials held before the 2017 Fall & 2018 Winter Seminar Series.
26. At the 10th African American Youth Leadership Conference, held at Oregon State University on March 29, 2016, de Silva gave the Welcoming Remarks at the Conference Opening; and volunteered as needed throughout the day.
27. de Silva participated in OSU's campus-wide Beaver Nations Campaign, through featured banner displays and an interview. This brought additional notoriety to the College of Earth Ocean and Atmospheric Sciences (CEOAS), and the Certificate Program. (September 2014 – Present). The published article is showcased here - <http://beavernation.is/thenation/desilva/>.
28. Served on the Institute Evaluation Panel, assessing 54 US Geological Survey Water Resources Research Institutes. Evaluated were their program activities for fiscal years 2008 – 2010. This included each institution's regional research and information, technology transfer, and operations. (February - July 2014)

29. Facilitated roundtable discussions on Creative Approaches to Water Cooperation, at the Water and Peace Diplomacy: From Conflicts to Cooperation Session on September 4, at 2013 World Water Week, Stockholm, Sweden.
30. Volunteers as a mediation practitioner within Benton County (Oregon) Small Claims Mediation Program & conducts community mediations (2011 – Present).
31. Teaches graduate courses and directs non-thesis students. Ms. de Silva is on the Graduate Faculty for OSU’s Water Resources Policy and Management Program (2010).
32. Establishes procedural processes for coordination between OSU’s Master of Natural Resources degree program (MNR) and graduate certificate programs. Ms. de Silva is a member of the MNR Administrative Committee (2010).
33. Follows admissions criteria established in the MNR Category I proposal and review of applications. Ms. de Silva is a member of the MNR Admissions Committee (2010).
34. Coordinated the 2nd Annual Symposium on Transboundary River Governance in The Face of Uncertainty: The Columbia River Treaty, 2014, held at Oregon State University, November 7–10, 2010.
35. Facilitated roundtable discussions on Water Conflict Management in the Climate Change and Governance Session at 2010 World Water Week, Stockholm, Sweden.
36. Volunteered as instructor for on campus WRP 510: Internship (2010).
37. Assisted in coordinating the Natural Resource and Environment Symposium 2009, entitled, “Transboundary River Governance in the Face of Uncertainty: The Columbia River Treaty, 2014,” held in Coeur d’Alene, Idaho, April 2–4, 2009.
38. Lead Board Delegate, Universities Council on Water Resources (UCOWR) for Oregon State University, Oregon, 2009–present.
39. Coordinated and acted as moderator for a special session co-hosted by the Universities Partnership for Transboundary Waters (UPTW), addressing Transboundary aquifers (Part 3), at the 13th International Water Resources Association World Water Congress, Montpellier, France, September 1–4, 2008.