

Se-Yeun Lee



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- Lee, S.Y.**, Mauger, G. S., and Whitely Binder, L. (2015). "Climate Change Impacts on Tacoma Power Watersheds." Final report for Tacoma Power by the Climate Impacts Group, University of Washington, Seattle, WA.
- Littell, J., Mauger, G. S., Salathé, E. P., Hamlet, A.F., **Lee, S.Y.**, Stumbaugh, M. R., Elsner, M.M., Norheim, R.A., Lutz, E.R., and Mantua, N.J. (2014). "Uncertainty and Extreme Events in Future Climate and Hydrologic Projections for the Pacific Northwest: Providing a Basis for Vulnerability and Core/Corridor Assessments." Final Report for Department of the Interior Pacific Northwest Climate Science Center. Climate Impacts Group, University of Washington, Seattle, WA.
- Mauger, G. S., and **Lee, S.Y.** (2014). "Climate Change, Sea Level Rise and Flooding in the Lower Snohomish River Basin." Final Report for The Nature Conservancy by the Climate Impacts Group, University of Washington, Seattle, WA.
- Lee, S.Y.**, and Hamlet, A.F. (2011). "Skagit River Basin Climate Science Report, A Summary Report Prepared for Skagit County and the Envision Skagit Project." Department of Civil and Environmental Engineering and the Climate Impacts Group at the University of Washington, Seattle, WA.
- Hamlet, A.F., **Lee, S.Y.**, Mantua, N.J., Salathé, E.P., Snover, A.K., Steed, R., and Tohver, I. (2010). "Seattle City Light Climate Change Analysis for the City of Seattle, Seattle City Light Department." The Climate Impacts Group, Center for Science in the Earth System, Joint Institute or the Study of the Atmosphere and Ocean, University of Washington, Seattle, WA.
- Elsner, M.M., Mauger, G.S., Tohver, I., **Lee, S.Y.**, and Hamlet, A.F. (2010). "Chapter 9 in Final Report for the Columbia Basin Climate Change Scenarios Project." The Climate Impacts Group, Center for Science in the Earth System, Joint Institute for the Study of the Atmosphere and Ocean, University of Washington, Seattle.
- Hamlet, A.F., Mauger, G.S., and **Lee, S.Y.** (2010). "Chapter 8 in Final Report for the Columbia Basin Climate Change Scenarios Project." The Climate Impacts Group, Center for Science in the Earth System, Joint Institute for the Study of the Atmosphere and Ocean, University of Washington, Seattle.
- Elsner, M.M., Cuo, L., Voisin, N., Deems, J., Hamlet, A.F., Vano, J.A., Mickelson, K.E.B., **Lee, S.Y.**, Lettenmaier, D.P. (2009). "Implications of 21st century climate change for the hydrology of Washington State. Chapter 3.1 in The Washington Climate Change Impacts Cuuguo gpv'Gxcnvc'kpi "Y cuj kpi vqpa'Hwwtg'lp" 'c'Ej cpi kpi 'Erko cvg." The Climate Impacts Group, University of Washington, Seattle, Washington.
- Hamlet, A.F., **Lee, S.Y.**, Mickelson, K.E.B., Elsner, M.M. (2009). "Effects of projected climate change on energy supply and demand in the Pacific Northwest and Washington State. Chapter 4 in The Washington Climate Change Impacts Assessment: Evaluating Y cuj kpi vqpa'Hwwtg'lp" 'c'Ej cpi kpi 'Erko cvg." The Climate Impacts Group, University of Washington, Seattle, Washington.

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#### Selected Presentations

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- Lee, S.Y.**, Fullerton, A, Steel, A., and Torgersen C., Selish Sea Ecosystem Conference, Seattle, WA, April 4<sup>th</sup> ó 6<sup>th</sup>, 2018, "Space matters: incorporating mechanistically determined spatial patterns into projected impacts of climate change on stream temperature."



2016 Applied Hydraulic Lab (CEEGR 3350)  
**Co-Instructor** at Civil and Environmental Engineering, University of Washington  
2011-2012 Deterministic System (CEE 491)  
**Instructional Assistant** at Civil and Environmental Engineering, University of Washington  
2006, 2007 Hydraulic Engineering (CEE 345)  
2005, 2007 Fluid Mechanics (CEE 342)  
2005, 2006 Physical Hydrology (CEE 476)  
2005, 2006 Open-Channel Flow (CEE 477)  
**Guest Lecturer** at Civil and Environmental Engineering, University of Washington  
2008 Water Resources Planning (CEE 576)  
2006 Hydraulic Design in Environmental Engineering (CEE 481)  
**Instructor** at Civil and Environmental Engineering, Jeonju University, South Korea  
1998-1999 Environmental Engineering I  
1998 Environmental Engineering II



- vulnerability assessment for salmonids in the Chico Creek Watershed. PI with A. Fullerton.
- 2018 DKC "VtkdcrnTguklqpeg'Rtqi tco æ'I tcv(\$149,256): Assess impacts of climate change on coldwater habitat, and implications for native salmonid populations of the Snoqualmie River to support Snoqualmie Tribal resilience and coastal management planning. PI with G. Mauger.
- 2017 Yakama Nation (\$58,246.30): Climate Vulnerability Assessment for Meadows. PI with J. Casola, M. Halabisky, and S. Hall.
- 2017 Northwest Climate Adaptation Science Center (\$129,542.03): Using Data and Models to Assess Impacts and Adapt to Climate Change: Handbook for Current and Future Stream Temperature. Co-PI with J. Casola, C. Torgersen and A. Fullerton.
- 2016 King County (\$390,000): Impacts of Climate Change on Flooding in King County Rivers. Co-PI with G. Mauger.
- 2015 Sauk-Suiattle Indian Tribe (\$190,000): Climate Change Vulnerability Assessment of the Sauk Watershed. Co-PI with E. Istanbuluoglu, A. Hamlet, and C. Bandaragoda.

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ADVISING

- 2022 Joseph Pacini, Sarah Creighton, and Ryan McGeary, Summer Undergraduate Research Program funded by Seattle University. *“Using Environmental Sensors to Evaluate Salmonid Passage Through Beaver Dams”*
- 2021 Ruby Ranoa, Summer Research funded by Seattle City Light. *“Future Peak Steamflow Analytics for the Skagit River”*
- 2019-2022 Undergraduate Capstone Projects.
- 2019-Present Undergraduate Students in Environmental Science Program at Seattle University.
- 2015 Graduate student committees: Begum Rabeya Rushi, MS (Washington State University Civil and Environmental Engineering), 2015. *“Application of Reservoir Modeling to Quantify Impacts of the Columbia River Treaty after 2024”*

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Community activities

- 2020-2022 Committee of Washington State Academy of Sciences
- 2013-Present Sunday School Teacher/Team Facilitator at University Presbyterian Church, Seattle, WA. Teach 3-5 years old kids, organize team activities and schedules, and o cpci g"vgcej gtæ'tqrgu"dcugf "qp"j gt"cdkx{0
- 2018-2019 Teacher at Korean School at St. Andrew Kim, Seattle, WA. Teach Korean culture and language to 2<sup>nd</sup> generation of Korean.
- 2005-2009 Manager and teacher at Bethany Korean School, Lynnwood, WA. Organized school events and led group discussions with teachers and/or parents.
- 2005 Teacher at Morning Star Korean Culture Center, Lynnwood, WA. Taught Korean culture and language to adoptive families.
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