Becca Beutel

University of British Columbia Department of Earth, Ocean and Atmospheric Sciences (EOAS) 2020 Main Mall, #3023 Vancouver, BC Canada V6T 1Z4

Email : bbeutel@eoa Twitter : @BeutelBee		Citizenship: Canada, USA	
Research interests	Coastal oceanography, biogeochemical-physical interactions, climate forecasting		
Education	University of British Columbia (UBC) PhD in Physical Oceanography Advisor: Dr. Susan Allen.	Vancouver, BC 2023-present	
	University of British Columbia (UBC)Vancouver, BCMSc in Physical Oceanography2020-2023Advisor: Dr. Susan Allen.Intesis: Pacific sources of biologically significant constituents in the Salish Sea using Lagrangian particle tracking		
	University of GuelphGuelph, ONBASc with Distinction in Environmental Engineering2015-2020Graduate courseworkZultionAdvanced Geophysical Fluid Dynamics; Dynamic Oceanography; Methods in Oceanography, Data Analysis in Atmospheric, Earth and Ocean Sciences; Waves, Currents, and		
	Ocean Mixing; Estuary Hydraulics; Numerical Weather Prediction; PRODIGY interdis- ciplinary training program for Atmosphere and Earth Scientists		
Awards and scholarships	NSERC Canadian Graduate Scholarship - Doctoral Program (\$ UBC Four Year Doctoral Fellowship (\$18,200 per year) R. Grant Ingram Memorial Scholarship in Oceanography (\$6,1 NSERC Alexander Graham Bell CGS M, Masters Program (\$17 WEAO and WEF Student Design Competition (\$5,000) Ontario/Baden-Württemberg Research Scholarship (\$3,500) NSERC Undergraduate Student Research Awards Program (\$4	2022 50) 2022 7,500) 2021 2020 2019	
Publications	Journal Articles Beutel, B ; Allen, S.E. (submitted). Seasonal and interannual using Lagrangian tracking. <i>Journal of Geophysical Research: O</i>	e	

	McBean, E; Farrow, C; Preston, T; Yang, A.L; Cheng, H.Y; Wu, Y.C; Liu, Z; Dai, Z.N; Fe H.Y; Beauchamp,J; Beutel, R ; Huang, G.H. (2019). Investigation of Maintenance Impact on Flow Rates in Ceramic Disc Water Filters. <i>Journal of Environmental Informatics Letter</i> 1(2)		
Conference Talks	Becca Beutel, Susan Allen. Interannual and seasonal water mass analysis in the SalisSea. CMOS Congress 2023. St. John's, NL. Oral Presentation.May 202		
	Becca Beutel, Susan Allen. Interannual and seasonal water mass analysis in the SalisSea. EGU 2023. Online. Oral Presentation.Apr 202		
	Becca Beutel , Susan Allen. Lagrangian analysis of seasonal and interannual trends i estuarine flow composition and path within Juan de Fuca Strait. CMOS-CGU-ESC Join Congress. Virtual. Oral presentation. Jun 202	t	
	Becca Beutel , Susan Allen. Lagrangian analysis of seasonal and interannual trends in estuarine flow composition and path between Juan de Fuca Strait and the Strait of Georgia and Puget Sound. Salish Sea Ecosystem Conference. Virtual. Poster presentation. Apr 2022		
	Becca Beutel , Susan Allen. <i>Pacific Sources of Biologically Significant Constituents in the Salish Sea Using Lagrangian Particle Tracking</i> . Graduate Student Climate Conference. Virtual. Poster presentation. Oct 2021		
Research experience	Mesoscale Ocean and Atmospheric SciencesMentor: Dr. Susan Allen (UBC, Oceanography)2020-presentQuantify the annual variability in sources and resultant biogeochemical composition of water entering the Salish Sea through the Juan De Fuca using Lagrangian simulations.	f	
	Past Ocean Dynamics 201 Mentor: Dr. Jörg Lippold (University of Heidelberg, Geoscience) 201 Examined deep ocean sediment cores using x-ray diffraction in an attempt to explain the interesting proxy signals of a past climate event (Heinrich Stadial 2) by determining the sediment source.	e	
	Water Supply SecurityMentor: Dr. Ed McBean (University of Guelph, Engineering)2017-201Conducted membrane filtration analyses on low-tech water filters for application in ruracommunities.		
	G360 Groundwater InstituteMentor: Dr. Jana Levison (University of Guelph, Engineering)201Assessed variations in water composition throughout a climate-vulnerable watershed is order to determine the locations of groundwater-surface water interaction		

Additional Field	Huinay Scientific Field Station coastal field school	Jan 2023	
Experience	Float deployment and recovery with UBC and the Canadian Coast Guard Jul 202		
	UBC biological, chemical, and physical oceanography field school	Feb 2021	
	Coastal wetland habitat assessment with the Canadian Wildlife Servi	ce Sep-Dec 2021	
Teaching experience	University of British Columbia		
	TA, EOSC 471: Waves, Currents, and Mixing in the Ocean	Sep-Dec 2023	
	Climate module developer, EOSC 442: Climate measurement and analysis Jan-Dec 2022		
	TA, EOSC 474: Marine Pollution	Sep-Dec 2022	
	TA, ENVR 400: Research Project in Environmental Science	Sep 2020-Apr 2022	
	Science World Canada		
	Guest teacher, Future Science Leaders: physical oceanography	Jul 2023-Nov 2023	
Skills	Programming		
	Proficient in: Python, MATLAB.		
	Familiar with: C++, R.		
	Languages		
	English (native), French (advanced)		
Outreach	Pacific Museum of Earth's "On Earth" podcast - episode 48	Apr 2022	
	Beaumont Studios' "Rhythm Analysis" podcast - episode 3	Mar 2022	
Service	Science World - Community Scientist	Mar 2022-present	
	EOAS Climate Emergency Committee - team-member	Sep 2021-present	
	Physical Oceanography Seminar - coordinator and host	May 2021-Jun 2022	