

# BROOKE K. SULLIVAN, PHD

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Ecological restoration, green stormwater design, climate adaptation and resilience, socio-ecological wellbeing

## EDUCATION

- 2015-2019 **PhD Science** Coastal and Estuarine Ecology  
University of Melbourne, Parkville, Victoria, AUS
- 2009-2011 **Master of Science** Restoration Ecology and Environmental Horticulture  
University of Washington, Seattle, Washington, USA
- 1999-2006 **Certificate in Restoration Ecology**  
**Bachelor of Landscape Architecture**  
**Bachelor of Arts in Community and Environmental Planning**  
University of Washington, Seattle, Washington, USA

## CERTIFICATIONS AND LICENSES

**Registered Consulting Arborist** #541, American Society of Consulting Arborists, 2013  
**Certified Arborist** #PN-6439A, International Society of Arboriculture, 2007  
**Tree Risk Assessment Qualification**, International Society of Arboriculture, 2008  
**Driver's license** #SULLIBK200KP, Washington, 1996

## EMPLOYMENT

**Back To Nature Design**, Principal (1999-Present)  
121 NW 79<sup>th</sup> St  
Seattle, WA 98117

*Expertise:* Project management, Green stormwater infrastructure, native planting design, ecological restoration, arboricultural consulting, International Living Building Challenge

**Department of Landscape Architecture**, Lecturer (2017-Present)  
University of Washington  
Seattle, WA 98105

*Expertise:* Ecological design and planning, climate change mitigation, plant identification and management, advanced planting design, environmental systems, advanced design studios, socio-ecological resilience

**Environmental Science Associates**, Associate II (2006-2009)  
5309 Shilshole Avenue West  
Seattle, WA 98107

*Expertise:* Ecological protection, environmental mitigation planning and design, freshwater and marine inventories, environmental determinations, environmental code review and permit assistance, preparation of environmental impact statements, electrofishing and vegetation surveys

## SELECT PUBLICATIONS

- Hewson, I, **Sullivan BK** et al. "Perspective: Something old, something new? Review of wasting and other mortality in Asteroidea (Echinodermata)." *Frontiers in Marine Science* 6 (2019): 406: <https://doi.org/10.3389/fmars.2019.00406>
- Sullivan, BK.** *Heterozostera* Resilience. Dissertation. University of Melbourne, Victoria, Australia, 2019. <http://hdl.handle.net/11343/228928>
- Macreadie PI, **Sullivan BK** et al. *Biogeography of Australian Seagrasses: NSW, Victoria, Tasmania and Temperate Queensland* In *Seagrasses of Australia* Ed. Anthony Larkum. Springer International Publishing AG, 2018.
- Sullivan, BK** et al. *Host-pathogen dynamics of seagrass diseases under future global change.* *Marine Pollution Bulletin.* (2018): <https://doi.org/10.1016/j.marpolbul.2017.09.030>
- Trevathan-Tackett, S. **Sullivan BK** et al. *Pathogenic Labyrinthula associated with Australian seagrasses: Considerations for seagrass wasting disease in the southern hemisphere.* *Microbiological Research* (2018): <http://doi.org/10.1016/j.micres.2017.10.003>
- Sullivan, BK** et al. *The First Isolation and Characterisation of the Protist Labyrinthula sp. in Southeastern Australia.* *J. Eukaryot. Microbiol.,* (2017) 64: 504–513. <https://doi.org/10.1111/jeu.12387>
- A Schwelm, J Badstöber, S Bulman, N Desoignes M Etemadi, RE Falloon, CMM Gachon, A Legreve, J Lukeš, Ueli Merz, A Nenarokova, M Strittmatter, **BK Sullivan** et al. *Top 10 pathogen miscellany - other eukaryotes infecting plants and algae.* *Molecular Plant Pathology.* (2017): <https://doi.org/10.1111/mpp.12580>
- York, PH, Smith TM, Coles RG, McKenna SA, Connolly RM, Irving AD, Jackson EL, McMahon K, Runcie JW, Sherman CD, **Sullivan BK** et. al. *Identifying knowledge gaps in seagrass research and management: an Australian perspective.* *Marine Environmental Research* 6 (2016): <https://doi.org/10.1016/j.marenvres.2016.06.006>
- Scholz B, Guillou L, Marano AV, Neuhauser S, **Sullivan BK**, Karsten U, Küpper FC, and Gleason FH. *Zoosporic parasites infecting marine diatoms—A black box that needs to be opened.* *Fungal Ecology* 19 (2016): 59-76. <https://doi.org/10.1016/j.funeco.2015.09.002>
- Gleason FH, Lilje O, Marano A, Sime-Ngando T, **Sullivan BK**, Kirchmair, M, and Neuhauser S, *Ecological functions of zoosporic hyperparasites.* *Frontiers in Microbiology* 5 (2014): 244. <https://doi.org/10.3389/fmicb.2014.00244>
- Sullivan BK et al. The role of Labyrinthula spp. in global seagrass declines. *Fungal Ecology* 6(5) (2013): 328-338. <https://doi.org/10.1016/j.funeco.2013.06.004>

## TEACHING EXPERIENCE

**Lecturer** Department of Landscape Architecture, University of Washington, Seattle, Washington, USA. Ecological Design and Planning (2018-present), Plant ID and Management (2019-present), Planting Design Seminar 2020-present, including various landscape design studios (2017-present)

**Demonstrator** *School of Life and Environmental Sciences, Deakin University, Geelong, VIC, AUS.* Cells and Genes (2016), Marine and Coastal Ecosystems (2016)

**Instructor** *Osher Lifelong Learning Institute, University of Washington, Seattle, WA.* Pacific Northwest Native Trees (2011-2012); Pacific Northwest Ecosystems (2012)

**Mentor** *University of Washington, Wetlands Management Certificate, Seattle, WA.* 2009-2011

**Instructor** *National Garden Clubs, Inc., Tacoma, WA.* Landscape Design Courses (2011- 2012)

**Student Assistant** *Department of Biology, University of Washington, Seattle, WA, USA.* Biology 180 (2010-2011)

## SERVICE

2016- Present **Co-chair and Red List Authority** IUCN SSC Seagrass Species Group  
2019- Present **Participant** UW Resilience Lab Well-being for Life and Learning Initiative  
2016-2018 **Treasurer** Australasian Society for Phycology and Aquatic Botany  
2013-2016 **Editorial Board** American Society of Consulting Arborists  
2002-2003 **AmeriCorps** Washington State Service Corps

## AWARDS

Campus Sustainability Fund - \$95,000, University of Washington January (2020)  
Resilience Seed Grant- \$3000, UW Resilience Lab, June (2019)  
Environmental Grant - \$1500, Swan Bay Environmental Association, July (2018)  
Evamaria Koch Travel Grant - \$500, World Seagrass Association, June (2018)  
David H. Ashton Scholarship - \$2000, University of Melbourne, May (2018)  
Environmental Grant - \$1500, Swan Bay Environmental Association, July (2017)  
ASPAB Travel Award - \$850, Australasian Society for Phycology and Aquatic Botany, October (2016)  
Science Abroad Traveling Scholarship - \$1500, University of Melbourne, July (2016)  
Drummond Travel Award - \$1000, University of Melbourne, July (2016)  
Margaret Catto Award - \$1000, University of Melbourne, June (2016)  
Evamaria Koch Travel Grant - \$500, World Seagrass Association, June (2016)  
GAM Scott Research Award - \$2000, University of Melbourne, May (2016)  
Margaret Catto Award -\$1000, University of Melbourne, Aug (2015)  
Ernest Hodgkin Estuary Research Award -\$300, Australian Marine Science Association, July (2015)  
ABRS Travel Grant - \$825, Australian Biological Resource Study, March (2015)

## PROFESSIONAL CONFERENCES

IUCN World Congress, Marseille, France (Postponed), 2020  
International Seagrass Biology Workshop, Maryland, United States (Postponed), 2020  
IUCN SSC Leaders Meeting, Abu Dhabi, United Arab Emirates, 2019  
International Seagrass Biology Workshop, Singapore, Singapore, 2018  
Australasian Society for Phycology and Aquatic Botany conference, Queensland, 2017  
International Seagrass Biology Workshop, Wales, United Kingdom, 2016  
Australasian Society for Phycology and Aquatic Botany conference, Hobart, Tasmania 2015  
Australian Marine Science Association, Geelong, Victoria 2015  
National Estuarine Ecological Research, New Orleans, Louisiana 2013

## INVITED LECTURES

Oregon Institute of Marine Biology, Charleston, Oregon, October 19, 2018