## Christopher Keneally, Microbial Ecologist

Adelaide, SA, 0481366633, cckeneally@gmail.com

Driving license (	Class C Driving, SA Boat Licence (Rec.)		
LINKS	<u>Website (Github Pages), Researcher Profile, Github, Google Scholar</u>		
PROFILE	Experienced and passionate researcher in microbial ecology. Expertise in remote ecological fieldwork, bioinformatics, and data analysis. Skilled in team leadership and research.		
EMPLOYMENT HISTOR	Y		
Feb 2021 — Present	Teaching, The University of Adelaide	Adelaide	
	Casual Teaching contracts across Freshwater Ecology III, (2021-23) & Molecules Genes & Cells (2022-23). Received overwhelmingly positive student evaluations from undergraduates.		
	<ul> <li>Delivered lectures on microbiology to ecology students.</li> <li>Demonstrated field-based experiments in Freshwater Ecology and lab-based experiments in Molecular Biology.</li> <li>Enhanced student learning in each settings through effective demonstration.</li> </ul>		
Jan 2021 — Present	Laboratory Supervisor, The University of Adelaide	Adelaide	
	Volunteer role with <i>ad hoc</i> casual contracts during university-wide lab audits. Achieved efficient lab operations and safety compliance across two labs: i) a limnology lab, and ii) a plant/microbial genetics lab.		
	<ul> <li>Facilitated researcher inductions and lab-based student mentoring</li> <li>Managed chemical safety and Chemwatch register</li> <li>Implemented first aid and hazard management protocols.</li> <li>Conducted laboratory maintenance to ensure cleanliness and proper functionin</li> </ul>		
Jul 2020 — Jun 2021	Graduate Research Assistant, The University of Adelaide	Lower Murray-Darling	
	Led zooplankton sampling projects in the Lower Murray-Darling Basin. Coordinated teams for remote fieldwork, contributing to the SA DEW (Department of Environment & Water) environmental initiatives through detailed data management and reporting alongside a DEW steering committee.		
Jul 2019 — Feb 2020	Undergraduate Research Assistant, The University of Adelaide	Lower Murray-Darling	
	Supported field-based water quality research in the Murray-Darling Basin as part of a Commonwealth Environmental Water Holder-led project on spring pulses of environmental water. Prepared and calibrated field equipment, and undertook multi-day sampling campaigns to ensure accurate data collection in remote areas.		
Nov 2012 — Jul 2019	Retail Supervisor, Rivers Australia	Adelaide	
	Balanced part-time retail supervision with undergraduate academic studies. Enhanced customer experience, managed budgets, and organised team operations and rosters efficiently.		
EDUCATION			
Nov 2020 — Present	Doctor of Philosophy, University of Adelaide	Adelaide	
	Research focus on microbial ecology in Coorong Lagoon, South Australia. Research summary video available <u>here</u> .		
Jul 2019 — Jul 2020	(First Class) Honours Degree of Bachelor of Science (Ecology & Environmental Sciences) , University of Adelaide	Adelaide	
	Thesis entitled: "Towards Recovery of the Coorong: A Framework for Investigating Denitrification, Diversity & Other Functional Roles of Microbial Communities in Hypersaline Sediments" is available on request.		
Feb 2015 — Dec 2018	Bachelor of Science (Microbiology & Immunology), University of Adelaide	Adelaide	

PUBLICATIONS	Brookes, J., Brendan Busch, Phill Cassey, D. Chilton, Sabine Dittmann, Tyler Dornan, C Giatas, Bronwyn M. Gillanders, Matt Hipse Peisheng Huang, Christopher Keneally, et a "How well is the basin plan meeting its obje From the perspective of the Coorong, a sent change in the Murray-Darling Basin." Austra Journal of Water Resources (2023)	George Ey, I. ctives? inel of alasian	
	<u>10.1080/13241583.2023.2241161</u>	2023	
	Huang, J., David Welsh, Dirk Erler, Angus Ferguson, Justin Brookes, Christopher Kene al. "Coorong nutrient cycling and fluxes." G Institute for Water Research Technical Rep Series 22/07 (2022).	Goyder	
	Keneally, C., Matilda Southgate, Daniel Ch Tyler Dornan, Justin Brookes, "Sediment microbial ecology and methane dynamics du resuspension events in a hypersaline coastal lagoon", Conference Poster (SIL 2022, Berli	uring	
	Priestley, S., et al. "N and C isotope variatio along an extreme eutrophication and salinit gradient in the Coorong Lagoon, South Australia." Frontiers in Earth Science 9 (202 1345.	у	
	10.3389/feart.2021.727971		
SKILLS	Project Management & Organising Teams in Challenging Remote Environments	Advanced Lab-based Molecular Biology and Microbiology Skills Geographic Information Systems	
	Expertise in Scientific Writing and Reporting	(QGIS) Interpersonal & Leadership Skills	
	Proficiency in R, Python & Bash for Bioinformatics & Ecological Data Analysis		
EXTRA-CURRICULAR	ACTIVITIES		
Nov 2022 — Present	President, Biology Society of South Austral	President, Biology Society of South Australia South Australia	
	Leading a non-profit in promoting biology studies, managing funds, and fostering conservation research in South Australia.		
Mar 2023 — Apr 2023	Cystic Fibrosis Hackathon, Flinders University Accelerator for Microbiome Exploration (FAME) Adelaide		
	Inter-University collaborative project exploring microbial ecology of a large Cystic Fibrosis patient cohort in South Australia. Developed bioinformatics skillset with the guidance of experienced computational biologists and collaborated directly with clinical physicians.		
Jul 2021 — Nov 2022	Chief Fire Warden, Benham Laboratories (UoA) Adelaide		
	Oversaw emergency procedures, developed evacuation and Chief Warden training.	plans, and ensured safety compliance. Underwent Floor	

Jan 2020 — Nov 2022	Secretary, Biology Society of South Australia	South Australia	
	Managed secretarial duties, administrative tasks, <u>website</u> design, and podcast technical support for the society.		
Feb 2016 — Nov 2018	Senior Peer Mentor, University of Adelaide		
	Facilitated transition for first-year students into university life through mentoring and support.		
Feb 2003 — Jan 2015	Scout Member	Brisbane, Darwin, Adelaide	
	A longstanding member of Scouts Australia from a young age, Activities ranged from sailing, bush-craft and survival skills to first-aid and leadership development. I was also involved with many fundraising and community engagement initiatives.		
INTERNSHIPS			
Nov 2018 — Feb 2019	Summer Research Intern, University of Adelaide	Adelaide	
	Investigating nitrogen flux in the Coorong lagoon, included:		
	- On-site fieldwork (sediment core sample collection)		
	- Laboratory processing, with experience of DNA/RNA extraction and purification, qPCR and associated lab techniques		
	- Data analysis and scientific writing		
HOBBIES	Guitar and music, cycling, hiking, and reading science fiction.		

REFERENCES

References available upon request