

Fred Chaaya

red has become a proficient physical modeller, developing a sound understanding of complex hydraulic processes through laboratory testing of dam spillways, cruise ship prop-wash and coastal flume modelling. He is adept in a wide range of instrumentation and modelling skills, as well as model design, construction and operation. Fred practical skills and extemporaneous problem-solving have been an asset to a number of projects involving field investigations and monitoring instrumentation installations. Fred the globally renowned community science coastal monitoring program, CoastSnap, has led to the efficient and optimised administration of a large-scale, multi-client project.

Qualifications and affiliations

BE Hons 1 (Civil Engineering), UNSW, 2021
BE Hons 1 (Environmental Engineering), UNSW, 2021
MIEAust: Engineers Australia

Professional history

Jul 2021 - Current: Project Engineer, UNSW WRL
Feb 2021 - Jun 2021: Intern, UNSW WRL

Expertise

Physical model design, construction and testing
Coastal erosion and flooding processes
Dam and reservoir hydrology and hydraulics
Reservoir stratification and artificial destratification techniques

Cruise ship prop-wash effects

