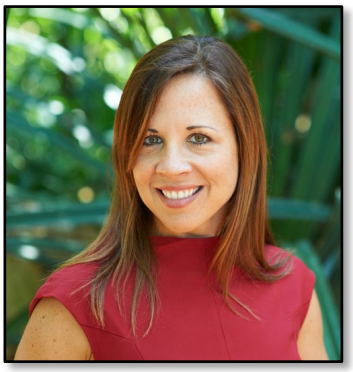
JODIE L. RUMMER, PH.D.



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Biography: Dr. Jodie Rummer's background is in marine biology and comparative physiology. She is a Professor of Marine Biology at James Cook University (JCU). But, prior to joining JCU, Jodie's academic training started in the U.S. with Bachelor's and Master's degrees from the University of West Florida, took her to Canada for a PhD from the University of British Columbia, and then to Hong Kong for a short post-doctoral fellowship. Dr. Rummer joined JCU in 2011 as an Australian Research Council (ARC) Super Science Fellow, was awarded an ARC Early Career Discovery Fellow (DECRA) and was promoted to Associate Professor in January 2017 and full professor in July 2022. Internationally, Dr. Rummer is also on the editorial board for three scientific journals and is part of the UNESCO Intergovernmental Oceanographic Committee advisory panel on global deoxygenation, which is part of the United Nations Decade of Ocean Science for Sustainable Development program.

Dr. Rummer has accolades for her research as well as her capacity to communicate and connect her findings to broad and diverse audiences. She received the highly prestigious UNESCO-L'Oréal Women in Science Fellowship for Australia and New Zealand in 2015-2016. In 2016, Jodie was awarded the Society for Experimental Biology's President's Medal and named one of Australia's top 5 scientists under the age of 40 by the Australian Broadcasting Corporation (ABC) and Radio National (RN). In 2018, she was named one of the Women in Science Ambassadors for the Australian Government Department of Industry, Innovation, & Science and, in 2019, awarded Queensland's Tall Poppy outstanding early career researcher, scientist of the year. In 2022, Rummer and team were awarded the overall JCU-wide "Citation for Outstanding Contributions to Student Learning" for their first-year Introduction to Marine Science subject.

Jodie presented a TEDx talk ("Athletes of the Great Barrier Reef"), which has had thousands of views. Upon giving the President's lecture at the New England Aquarium in Boston in 2017, Jodie was invited to speak at the Gills Club Symposium "Shark Tales: Women Making Waves" and educational outreach day. Jodie gave a Planet Talk at WOMADelaide in 2019 – attended by over 100,000 people – regarding the harmful effects of oil drilling and pollution on marine life, which was featured in short documentary called *Wild Waters* and covered by the *Adelaide Review* and the ABC. Jodie also spoke at the World Science Festival in Brisbane in 2019 on "Saving what we've got: Australia's wildlife under threat" and "Let's talk: Sharks", both sold out events reaching in person and online audiences exceeding 100,000. Soon after, Dr Rummer spoke at the 2021 Global Biodiversity Festival. More recently (April 2023), Rummer was also honoured and presented the David J. Randall seminar at the University of British Columbia (Vancouver). She is currently a spokesperson for the Climate Media Centre and works closely with Citizens of the Great Barrier Reef and the Great Reef Census. Jodie is also the current President of the Australian Coral Reef Society (established in 1922) where she has already played a role in advocating for climate policy and the health of the reef at "Science Meets Parliament" and the "Reef Futures Roundtables" in Canberra in 2023.

Jodie and her team, through the work of Tom Vierus, produced a short documentary covering their ongoing (since 2013) shark research in French Polynesia, which debuted at the New York City Wildlife Conservation

Film Festival and four other Film Festivals so far (with >25,000 reached on social media) as well as two short videos (check them out here and here). Jodie has also discussed her team's shark research on National Geographic Wild, Ocean Treks with Jeff Corwin, Discovery Canada and Shark Week (see Twitter and Facebook for short clips), and Disney+ via National Geographic, as well a recent array of podcasts, such as The Whole Tooth, SeaCreatures, The Sweaty Penguin, and Women in Ocean Science. Rummer is also one of 12 featured scientists and part of an international multi-media exhibit on shark research and conservation that launched at the Australian Museum – Sharks – in August 2022. Indeed, Rummer's scientific research and advocacy for preserving biodiversity and mitigating the effects of climate change, through her outreach and communication, has already reached billions over the course of her career.

Over the course of her career, Dr. Rummer has researched fish buoyancy, exercise, and is a leading authority on the evolution of oxygen transport and how fish maintain performance during stress. Today, Jodie's team combines physiology, ecology, and evolution to address issues important to conservation, such as the effects of climate change and other anthropogenic stressors on coral reef fishes, sharks, and rays and the potential for adaptation. Jodie has published >150 peer-reviewed journal articles, book chapters, and editorials, and she has presented her work at more than 120 professional conferences and public events worldwide.

You can find out about Dr. Rummer's research and her lab at www.jodierummer.com and www.physioshark.org, on Instagram and Threads (@RummerLab @physioshark), Facebook (Physioshark Project), and on BlueSky (@physiologyfish) where she communicates scientific findings, highlights fellow scientists' achievements, and advocates for issues related to women in science, gender equity, and diversity in STEM.