

Dr Qifeng Ye, Inland Waters & Catchment Ecology

SARDI Aquatic Sciences

Areas of expertise

Freshwater fish biology, ecology, population dynamics, fisheries science, stock assessment, and project management.

Countries of work experience

Australia, USA, China, Thailand

Overview of experience and qualifications

Dr Ye has a range of skills and extensive experience in fish and fishery biology, fish ecology and population dynamics accumulated through 18 years of environmental and fishery related work. This has been done in freshwater, marine and estuarine systems in several countries. She has written many publications including journal papers, articles, book chapters and technical reports and presented her research work at national and international conferences.

After completing her Ph.D. in Fisheries Science in the USA, Dr Ye joined SARDI as a senior scientist in 1998, leading a FRDC funded 3-year research project addressing the fishery biology and habitat ecology of southern sea garfish (*Hyporhamphus melanochir*) in southern Australia. Since 2001, she has been the senior scientist and leader of the Inland Waters research team, conducting research into the fish and fisheries biology, population dynamics, fish ecology and the environmental impacts on fish communities. She is also responsible for the stock assessment of the two most significant inland waters native fish species of south Australia Murray cod (*Maccullochella peelii peelii*) and callop (*Macquaria ambigua*). With an excellent knowledge of ecological impacts of river regulation, she has more recently ventured into the field of flow and habitat requirements of freshwater and estuarine fish, recruitment dynamics and larval fish ecology, and obtained substantial grants from national and State funding bodies to conduct research on flow related ecology, environmental water requirements, fish habitats and fish passage in the River Murray, Lakes & Coorong, and the Southeast region.

Prior to moving to SARDI, Dr Ye spent four years researching fish population dynamics and community ecology in floodplain river ecosystems in the USA. Her work focused predominantly on the impacts of environmental flows and climatic regimes on fish stocks in these floodplain rivers.

Dr Ye also has a M.Sc. in aquaculture with three years research experience in integrated culture, pond dynamics, nutrient budgets and water quality in both freshwater and marine systems.

Dr Ye represents SA on the MDBC Native Fish Strategy Implementation Working Group. She is also a member of a number of scientific and technical committees including the national Murray Cod Task Force, Sustainable River Audit Fish Task Force, CLLMM Science Advisory Group, SA MDB NRMB Targeted Planning Group, and Murray Futures Program Lower Lakes Technical Committee.

Professional appointments

2005-present: Program Leader/Principal Scientist, Inland Waters & Catchment Ecology, SARDI Aquatic Sciences

2001-2005: Inland Waters Subprogram Leader/Senior Scientist, SARDI Aquatic Sciences.

1998-2001: Senior Research Scientist, SARDI.

1993-1996: Doctoral Research Fellow, Mississippi State University, USA.

1991-1993: Research Associate, Asian Institute of Technology, Thailand.



Research and consulting

2008-present: Impacts and response of fish communities in the lower Lakes to proposed management options.

2006-present: CLLAMMecology – flow related fish and fisheries ecology in the Coorong, SA

2006-present: Lake George ecology and environmental flows, SE

2006-present: eWater CRC ecological response

2005-present: Fish recruitment dynamics: larvae & habitat in the lower Murray.

2000-present: Native fish monitoring & stock assessment of Murray cod and callop in SA.

2002-present: MDB Sustainable River Audit.

2003-present: Monitoring threatened fish communities in the Lower Lakes.

2000-present: Recovery of habitat and fish stock in Lake George, the Southeast SA.

2001-2004: Fish passage assessment of the Murray River and barrages in the MDB.

2001-2002: Fishery biology of callop in Lake Hope and Red Lake, Coopers Creek system.

1998-2001: Fishery biology & habitat ecology of sea garfish in Southern Australian waters.

Stock assessment of the sea garfish in SA

Contact

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