

## Speakers



5<sup>th</sup> MARCH 2025



### Carlos Jorge Ferreira Silvestre

Professor / Head of the Dept. of Electrical and Computer Engineering - University of Macau  
Carlos Silvestre (Senior Member, IEEE) received his Licenciatura and M.Sc. in Electrical and Computer Engineering, his Ph.D. in Control Science, and his Habilitation in Electrical and Computer Engineering from Instituto Superior Técnico (IST), Lisbon, Portugal, in 1987, 1991, 2000, and 2011, respectively. He has been with the Department of Electrical and Computer Engineering at IST since 2000, where he is a Professor in Systems, Decision, and Control, currently on leave since 2012. He is currently a Professor and Head of the Department of Electrical and Computer Engineering at the University of Macau's Faculty of Science and Technology. His research interests include linear and nonlinear control, estimation theory, hybrid systems, multi-agent control, networked control, inertial navigation, and machine learning for autonomous systems, with a focus on unmanned ocean and aerial vehicles.



### Jie Xu

Associate Professor / Head of the Dept. of Ocean Science and Technology - University of Macau  
Dr. Jie Xu is currently the Head of the Department of Marine Science and Technology at the University of Macau, Interim Director of the Centre for Regional Oceans, and an Associate Professor. He received bachelor's and master's degree from Zhejiang University and PhD from the Hong Kong University of Science and Technology. He previously served as a Research Professor at the South China Sea Institute of Oceanology, Chinese Academy of Sciences, Deputy Director of the State Key Laboratory of Tropical Oceanography, and an adjunct professor at the University of Chinese Academy of Sciences. He specializes in biological oceanography and marine biogeochemistry, with a focus on marine plankton ecology, nutrient and carbon biogeochemical cycle. He has published over 70 papers in high-impact journals such as the Journal of Geophysical Research: Oceans and Limnology and Oceanography, and has been granted one invention patent. He has led several projects including key and general projects of the NSF of China, and General projects of the FDCT of Macau. Currently, he is a co-chair of the UNESCO Intergovernmental Oceanographic Commission's working group on "Climate Change and Global Trends in Marine Phytoplankton," a member of the expert panel for a national key research and development program. He serves as an Associate Editor for the Journal of Geophysical Research: Oceans and Frontiers in Marine Science, and as the editorial board member of Harmful Algae. From 2015 to 2021, he had served as the Chief Scientist for shared voyage projects of the National Natural Science Foundation of China.



### Vincent Kam Wai Wong

Professor / Executive Director  
Dr. Neher's Biophysics Laboratory for Innovative Drug Discovery, State Key Laboratory of Quality Research in Chinese Medicine - Macau University of Science and Technology  
Prof. Vincent Kam Wai Wong serves as a full professor at the State Key Laboratory of Quality Research in Chinese Medicine at the Macau University of Science and Technology. Prof. Wong is engaged in critical research on anti-inflammation and anti-cancer therapies. His expertise lies in cancer molecular biology, chemical biology, and the relationship between structure and activity. Recently, he has been focusing on the role of p53 and P-glycoprotein in the drug-resistant phenotype of rheumatoid arthritis. He has made significant contributions to the scientific community with over 180 peer-reviewed publications in Science Citation Index journals. Further, he holds more than 30 patents from the US, Australia, and China. Since 2013, Prof. Wong has been awarded numerous accolades for his research contributions. These include the Bank of China Excellent Research Award, the First-class High Institute Natural Science Award in China, and both Second and First-class Natural Science Awards in Macao. Additionally, in 2022, Stanford University recognized him as one of the top 2% of scientists worldwide.

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### David Gonçalves

Associate Professor / Dean of the Institute of Science and Environment - University of Saint Joseph

I have a background in biology, with specific training in behavioral neuroendocrinology. My research interests are on understanding the physiological mechanisms and evolutionary consequences of animal behavior, using fish as model animals. My early research focused on the role that hormones play as mediators of phenotypic plasticity within the context of sequential male alternative reproductive tactics in a blenny (*Salaria pavo*). For the past years, I have focused my research on the genomic and neuroendocrine mechanisms of behavioral variation and adaptation, and their evolutionary consequences, in the Siamese fighting fish *Betta splendens*. I have also been researching the impact of environmental stressors in brain and behavior in the marine medaka *Oryzias melastigma*.

I apply a combination of methods in ethology, endocrinology, immunohistochemistry, molecular biology, neurosciences, genomics and transcriptomics to investigate the questions under study. More recently, I have been developing and adapting deep-learning tools for high-throughput quantification of fish behavior.

Having worked in Portugal and currently in Macao, my research has been supported by competitive grants funded by the Portuguese Foundation for Science and Technology (FCT) and by the Macao Science and Technology Development Fund (FDCT), respectively. I have coordinated over a dozen research projects as a principal investigator, including joint projects funded by FDCT-FCT and FDCT-NSFC (National Natural Science Foundation of China). I am an Associate Professor at the University of Saint Joseph (USJ), in Macau, and I have been the Dean of the Institute of Science and Environment of this University since 2014. I was the coordinator of the doctoral programme of USJ between 2013 and 2020 and I am the current coordinator of the Master of Neuroscience and Behaviour, a joint programme organised by USJ and ISPA-IU, in Portugal. I am also the current President of the Macao Association for Scientific Cooperation between China and Portuguese Speaking Countries (ASCMAC) and the USJ coordinator of the first Sino-Portugal Joint Laboratory for Marine and Environmental Sciences (JLMES).



### Professor Adelino V M. Canário

Adelino V.M. Canario is the director of CCMAR (Algarve Centre for Marine Sciences), CIMAR Associated Laboratory, and the president of Greencolab Collaborative Laboratory and Biodata.PT (data research infrastructure), and Chair and national node coordinator of the European Marine Biological Resource Centre. He is a distinguished professor at Shanghai Ocean University and co-directs the International Joint Research Center of Marine Biology, established between the University of Algarve and Shanghai Ocean University.

He is a member of the Advisory Board of the National Agency for Innovation, the National Committee for Polar Research and a national representative at the Scientific Committee for Antarctic Research (SCAR).

He has published over 300 scientific articles and is Executive Editor of Gene (Elsevier), and Associate Editor of General Comparative Endocrinology (Elsevier).

Organizers



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# SINO-LUSO SCIENCE AND TECHNOLOGY COOPERATION FUNDING SCHEME INFO SESSION & SEMINAR ON MARINE SCIENCE

5th March 2025

### DATE:

5th March 2025, 14:30

### LOCATION:

CCCM Auditorium  
Rua da Junqueira, nº 30, 1300-343 Lisboa

### CONTACT:

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## Agenda



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### 14H30 OPENING SESSION

PROF. CARMEN AMADO MENDES - President of the CCCM - Macau Scientific and Cultural Centre  
PROF. FERNANDA ILHÉU - President of the NSRFA - New Silk Road Friends Association  
PROF. JOSEPH HUN-WEI LEE - President of the MUST - Macau University of Science and Technology  
REPRESENTATIVE OF EMBAIXADA DA REPUBLICA POPULAR DA CHINA NA REPUBLICA PORTUGUESA (to be confirmed)

### 15H -15H15 FUNDING SCHEME INFO SESSION

REPRESENTATIVE OF FDCT - Introduction of the Sino - Portuguese Science & Technology Cooperation Funding Scheme

### 15H15-16H30 SEMINAR SESSION 1

PROF. CARLOS JORGE FERREIRA SILVESTRE  
Head of the Dept. of Electrical and Computer Engineering, University of Macau  
*Autonomous Marine Robotics for Ocean Exploration and Sustainable Development*

PROF. JIE XU  
Head of the Dept. of Ocean Science and Technology, University of Macau  
*Marine science and technology cooperation between China and Portuguese-speaking countries: Opportunities and practice*

PROF. ADELINO CANÁRIO AND PROF. DEBORAH POWER  
Director of the Algarve Centre of Marine Sciences (CCMAR) and Researcher at the Algarve Centre of Marine Sciences (CCMAR)  
*The Algarve Centre for Marine Sciences (CCMAR) and international collaboration*

PROF. DEBORAH POWER  
Coordinator of the Aquaculture and Biotechnology pillar in CCMAR  
*Plastifish: a Portugal-Macau collaborative project assessing the impact of plastic pollution*

PROF. AMADEU SOARES  
Director of the Centre for Environmental and Marine Studies (CESAM)  
*CESAM and Sino-Portuguese Cooperation: Past, Present, and Future Opportunities*

### 16H30-16H45 COFFEE BREAK

### 16H45-17H45 SEMINAR SESSION 2

PROF. WONG KAM WAI  
Executive Director of Dr. Neher's Biophysics Laboratory for Innovative Drug Discovery, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology  
*Ocean Resources for Medicine*

PROF. PEDRO RAPOSO DE ALMEIDA  
Director of the Marine and Environmental Sciences Centre (MARE)  
*Management and conservation of anadromous fish in Portugal: Lessons learned and future directions*

PROF. FILIPE ALVES  
Marine Biologist and Research Associate at the MARE  
*The role of MARE-Madeira in science on oceanic island*

PROF. DAVID GONÇALVES  
Dean of the Institute of Science and Environment - University of Saint Joseph  
*A sea of opportunities: Macau as a platform for scientific cooperation between China and Portuguese Speaking Countries in marine sciences*

PROF. CRISTINA CALHEIROS  
Representative of the Interdisciplinary Centre of Marine and Environmental Research (CIIMAR)  
*Advancing Marine and Environmental Science through Innovation and Collaboration*

### 17H45-18H00 Q&A

### 18H-18H15 CLOSING SESSION

DIR. ALEX CHE WENG KEONG - President of the Administrative Committee of FDCT - Science and Technology Development Fund  
PROF. ANA PAIVA - Portuguese Secretary of State for Science (to be confirmed)

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### Professor Amadeu Soares

Amadeu Soares is a Full Professor at the University of Aveiro (UA) since 2004, specializing in Ecotoxicology and Functional Biodiversity. He earned his PhD in Animal and Plant Sciences from the University of Sheffield, UK (1989), and completed his habilitation at the University of Coimbra (1997). He is Director of CESAM (Centre for Environmental and Marine Studies) since May 2021, after 18 years as Head of the Department of Biology at UA (2001-2019). With over 850 publications in indexed journals and an h-index of 78, his work is widely cited and internationally recognized. He has supervised over 70 PhD students and 50 MSc students and has coordinated numerous national and international research projects. A founding member and past president of SETAC-Europe (Society for Environmental Toxicology and Chemistry), he has been playing key roles in scientific advisory boards for European and Canadian institutions. His contributions to science communication include books, documentaries, and podcasts. He has received numerous awards throughout his career, including the SETAC-Europe Environmental Education Award and the Gulbenkian Ocean Sustainability Prize.



### Professor Cristina Calheiros

Cristina Calheiros, PhD in Biotechnology, is Research Scientist at CLIMAR-Interdisciplinary Centre of Marine and Environmental Research of the University of Porto, Coordinator of the Centre for Monitoring and Environmental Interpretation (CMLA), Vila do Conde, Adjunct Professor at University of Saint Joseph, SAR Macao, China and invited professor at University of Porto. She is European Climate Pact Ambassador (European Commission), board member of The Portuguese Association for Water Resources – north region (APRH) and Vice-president of The Portuguese National Association of Green Roof (ANCV).

Her work focuses on the development of nature-based solutions towards sustainability of territories and as tools for climate change adaptation and mitigation, and phytotechnology's and phytoremediation for solid and water management towards a circular economy.



### Professor Deborah M Power

Deborah M Power is a professor of Biotechnology at the Universidade do Algarve, and a distinguished professor at Shanghai Ocean University, China. She coordinates the Aquaculture and Biotechnology pillar in CCMAR (Algarve Centre for Marine Science). She was awarded an honorary Doctorate by the University of Gothenburg, Sweden (2012) and elected as a corresponding member of the Reial Acadèmia de Ciències i Arts de Barcelona (RACAB), Spain in recognition of her scientific accomplishments. She is part of the international advisory board of Gothenburg University, Sweden and the Institute of Marine Sciences (ICM-CSIC), Barcelona, Spain. Prof Power is President of the International Federation of Comparative Endocrinological Societies and has published over 330 scientific articles. She is Editor in Chief of General and Comparative Endocrinology (Elsevier), and Associate Editor of Developmental and Comparative Immunology (Elsevier).

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### Professor Filipe Alves

Filipe Alves received a PhD in Biological Sciences from the University of Madeira, Funchal, Portugal, in 2014. He is a Marine Biologist and Research Associate at the Marine and Environmental Sciences Centre

(MARE) and the Faculty of Life Sciences, University of Madeira, Funchal, Portugal. He has been invited as a Professor and regularly acts as a Consultant for high-level organizations. His research interests include the ecology of insular environments, with emphasis on the population, trophic, and movement ecology of marine megafauna.



### Professor Pedro Raposo de Almeida

Pedro R. Almeida is a Full Professor at the Department of Biology, School of Sciences and Technology, University of Évora. He is the Director of MARE – Marine and Environment Sciences Centre, and the Coordinator of the Associated Laboratory ARNET – Aquatic Research Network. Since 2009 he has been the Head of the Scientific Research Board of the Mora Freshwater Aquarium. For the last 30 years his scientific activity has been dedicated to the study of the biology and ecology of fishes. He has an extensive experience in the management and conservation of diadromous fish species, namely in terms of design and monitoring of fish passes and management of fisheries. He has participated in over 90 scientific and applied projects, coordinating 55 of them, and published over 115 scientific papers and 6 books. He has received six awards, including the “Distinguished Project in Fisheries Engineering and Ecohydrology”, awarded jointly by the American Society of Civil Engineers (Environmental & Water Resource Institute), and the American Fisheries Society (Bioengineering Section).