

GAVIN CHUA

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EXECUTIVE SUMMARY

- **Manager** at the **Hatchery Department** of the Singapore Food Agency (SFA) at the Marine Aquaculture Centre
- **Eramus Masters Scholar** of the [AQUAH](#) (Belgium) and the [MMRM](#) (Netherlands) Programme

Achievements

- Planned and executed **IMTA experiments** in a commercial farm in Algarve, Portugal
- **Designed, constructed, and fine-tuned multiple RAS/flowthrough systems** for research use
- Provided both technical and operational expertise to a commercial hatchery to support the full operation with **Asian Seabass (*Lates calcarifer*) fingerlings**
- Conducted research experiments on the **feasibility of using microencapsulated feeds for Asian Seabass (*Lates calcarifer*) larvae and the effects of carotenoids on the colouration of Red Snapper (*Lutjanus sp.*)**

KEY SKILLS

Technical Skills

- RAS Design & Construction
- Larviculture Planning & Production
- Research Planning & Execution
- Scientific Writing

Soft Skills

- Problem Solving
- Resourceful & Creative
- Attention to Detail
- Collaboration & Teamwork

PROFESSIONAL EXPERIENCE

INTERN

2024 - 2024

Piscicultura Pesco do Alvor, Portugal

- Designed and built 16 500L tanks flowthrough system for experimental use
- Conducted experiments to determine the effects of live macroalgae (*ulva, gracillaria and fucus*) IMTA system on the colouration, growth and health on gilt-head seabream
- Assisted with farm operations from fish harvesting and sampling to fish health management and disease treatments

HATCHERY MANAGER

2021 - 2023

Marine Aquaculture Centre, Singapore

- Worked with a team of 5 to conduct research trials to overcome bottlenecks in larviculture resulting in high survival rates and improved larvae quality of various tropical finfish species (*Lates calcarifer, Lutjanus sp.*, etc).
- Designed, operated and improved multiple RAS and flowthrough systems for research use.
- Partnership with multiple countries via international organisations (APEC, ASEAN, etc) to establish projects in the environmental and aquaculture sector globally.
- Collaborated with commercial farms providing technical and operational expertise to establish hatchery systems, protocols and planning whilst training new staff to start and run a full hatchery, inclusive of live feeds production.

EDUCATION

INTERNATIONAL MASTER OF SCIENCE IN HEALTH MANAGEMENT IN AQUACULTURE

Gent University – Belgium

MASTER AQUACULTURE AND MARINE RESOURCE MANAGEMENT

Wageningen University and Research – Netherlands

BACHELOR OF BUSINESS & ENVIRONMENTAL SCIENCE

James Cook University Singapore – Singapore

DIPLOMA IN MARINE SCIENCE AND AQUACULTURE

Republic Polytechnic – Singapore

AWARDS & CERTIFICATIONS

- Erasmus Mundus Scholar, 2023
- Dean's List, James Cook University Singapore, 2021
- Chairman of the Aquaculture Club, James Cook University Singapore, 2021
- Certificate of Merit, Young Scientist Symposium, 2018
- Temasek Foundation Scale Scholar, 2015

MISCELLANEOUS INFO

Nationality: Singaporean

Languages: Fluent English, Intermediate Mandarin Chinese, Basic Dutch and Portuguese

Certifications: Open Water Diving, Master Freediving and RCULA

REFERENCES

- Dr Annelis Declercq – Associate Professor at Gent University, Belgium
Contact: andclerc.declercq@UGent.be
- Dr Susan Gibson-Kueh – Senior Research Fellow at James Cook University, Singapore
Contact: susan.kueh@jcu.edu.au
- Ms Junainah Badron – Assistant Program Chair (Marine Science and Aquaculture) at Republic Polytechnic, Singapore
Contact: junainah_badron@rp.edu.sg
- Dr António Manuel Frade Vieira – Farm Owner at Piscicultura Pesco do Alvor (PVL), Portugal
Contact: antoniofradevieira@gmail.com
- Wei Li Quek – Manager at Marine Aquaculture Centre (MAC), Singapore
Contact: quek_wei_li@sfa.gov.sg