



JOINT MASTERS | AQUACULTURE |
ENVIRONMENT | SOCIETY

*Research carried out by our SECOND cohort of ACES
students for their Dissertation – February to July 2018*



University of the
Highlands and Islands
Oilthigh na Gàidhealtachd
agus nan Eilean



UNIVERSITÉ DE NANTES



Ruth Gutierrez: Delineating microbiome impact on microalgal toxicity identification of compounds produced by an *Eurotium* sp. strain responsible for inducing toxin production in *Prorocentrum lima*

Based at the University of Nantes, Faculty of Science

Mark Hipshire: The use of Lactic Acid Fermentation in liberation of R-Phycoerythrin from Red Seaweeds

Based at the University of Nantes, Faculty of Science

Meshi Reznikov: Sea urchin recruitment: the effect of diatom-based biofilms on *Paracentrotus lividus* competent larvae and juvenile, or just Sea urchin recruitment

Based at the University of Nantes, Faculty of Science

Freya Robinson: Thraustochytrids as a replacement for traditional hatchery diets in *Ostrea edulis* and *Crassostrea gigas* culture

Based at SAMS-UHI

Morgina Akter: Contribution in understanding the life cycle of the parasite *Marteilia refringens* outside its host bivalve

Based at IFREMER, France, and supervised by staff at the University of Nantes, Faculty of Science

Stacy-Ann Gray: Documenting the Presence of Atresia & Loculus throughout the Oogenesis Stages of *Cerastoderma edule*

Based at the University of Nantes, Faculty of Science

Sarah Alegretti Marques Lima: Trace elements in the shells of *Ostrea edulis* and *Crassostrea gigas* as tools for environmental monitoring in shellfish ecosystems

Based at the University of Nantes, Faculty of Science

Amina Khalid: A biomarker study to assess the potential health impacts of biodegradable microplastic using Blue Mussels (*Mytilus edulis*) as sentinel organism.

Based at the University of Nantes

Maria de Fatima Gianella: Closing the life cycle of commercially important Rhodophyte seaweeds and incorporation of biosecurity measures on seaweed aquaculture.

Based at SAMS-UHI

Alejandro Espi Aleman: Evaluation of different photoperiods, nutrient enrichment levels and stocking densities for the culture of *S. filipendula* (C. Agardh) seedlings.

Based at the Universidade Federal de Santa Catarina, Brazil and supervised by staff at SAMS-UHI and the Universidade Federal de Santa Catarina

Qiaolin Ji: Investigation of halogenated compounds from marine fungi: from genomics to metabolomics

Based at the University of Nantes, Faculty of Science

Lynnlee Chikudza: Economic incentives of adopting ecolabels in the European aquaculture industry: A Q-methodology approach

Based at the University of Nantes, Faculty of Science

Isak Sjoblom: Stakeholder perceptions of the governmental landscape for the aquaculture sector in Belize

Based in Belize and supervised by staff at SAMS-UHI

Yuliia Buhlak: Multi-dimensional Aquaculture Investor Index: Black Sea Region Case Study.

Based at the University of Nantes, Faculty of Law

Willemien de Kock: *Cymodocea nodosa* performance under stress from fish-farming in the Aegean

Based at the Hellenic Centre for Marine Research, Greece, and supervised by staff at the University of Crete and Hellenic Centre for Marine Research

Camilo Escobar Sierra: Mediterranean aquaculture impact on subtidal macroalgae assemblages: a case study from the Aegean Sea (Greece)

Based at the Hellenic Centre for Marine Research, Greece, and supervised by staff at the University of Crete and Hellenic Centre for Marine Research

Katie Gaffney: The Effect of Dissolved Oxygen Concentration on the Swimming Performance and Welfare of Ballan Wrasse *Labrus bergylta*.

Based at the Nofima Norwegian Institute, Norway, and supervised by staff at the University of Crete

Hayley Wolcott: Lumpfish (*Cyclopterus lumpus*) welfare during sea lice and amoebic gill disease treatments in seawater salmon production

Based at Marine Harvest in the North West of Scotland and supervised by staff at SAMS-UHI and Marine Harvest Scotland Ltd.

Iestyn Penry-Williams: Investigations into the impact of finfish aquaculture on zooplankton community composition and metal bioaccumulation in the Vourlias Bay, Greece

Based at the Hellenic Centre for Marine Research, Greece, and supervised by staff at the University of Crete and Hellenic Centre for Marine Research

Andre Gillon: Exposure to Cortisol During Early Life Affects Pre-Larvae Development and Expression of Stress Response Related Genes at First-Feeding in Gilthead Seabream (*Sparus aurata*)

Based at the University of Crete

Nikko Alvin R. Cabillon: Plasticity of muscle growth and mucosal defences in Atlantic salmon (*Salmo salar*) subjected to different exercise intensities

Based at the Nofima Norwegian Institute, Norway, and supervised by staff at the University of Crete

Jerry Maria Sojan: Designing a 3D spheroid cell culture system from fish cell lines for *In vitro* infection studies of *Saprolegnia Parasitica*

Based at the University of Aberdeen, Scotland, and supervised by staff at SAMS-UHI and the University of Aberdeen

Natalia Jardim: Effect of treatment with GnRHa during mid gametogenesis on the reproductive maturation of greater amberjack (*Seriola dumerili*)

Based at the Hellenic Centre for Marine Research, Greece, and supervised by staff at the University of Crete and Hellenic Centre for Marine Research

Kayla Fairfield: The impact of environmental variables on biofouling organisms, and their implications as a food source for European lobsters (*Homarus gammarus*) in sea-based container culture

Based at the National Lobster Hatchery in West Cornwall and supervised by staff at SAMS-UHI and the National Lobster Hatchery