

Flora

Rendell-Bhatti

INFO



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SKILLS



Scientific & community outreach

Scientific lead on Sail Against Plastic expedition, Plastic Free Community Leader, UK Microplastic Network



Teaching in higher education

UG and PG courses online and F2F
Small and large groups
Delivery, marking and assessment
Discussion groups and 1:1 sessions
Teaching practice and approaches
Associate fellow of HEA



GIS ArcGIS/QGIS



Coding R studio, Python, Raspberry Pi, Arduino



Aquatic husbandry Sea urchins, lamprey, fish eggs, HO licence



Microscopy FTIR, confocal

PUBLICATIONS

Rendell-Bhatti, F., Paganos, P., Pouch, A., Mitchell, C., D'Aniello, S., Godley, B.J., Pazdro, K., Arnone, M.I. and Jimenez-Guri, E., 2021. Developmental toxicity of plastic leachates on the sea urchin *Paracentrotus lividus*. *Environmental Pollution*, 269, p.115744.

PROFILE

I have a specific interest in the effects of anthropogenic stressors on aquatic ecosystems, in particular quantifying the effects of microplastic contamination on organisms. I strongly believe that scientists must collaborate and merge environmental outreach and education with their research in order to make positive change regarding environmental issues. Experience to date demonstrates a commitment to scientific research, alongside teaching and learning in higher education.

ACADEMIC QUALIFICATIONS

- present ● **PhD Studentship** *University of Stirling (UoS)*
2019
PhD Title: 'Microplastics and the Hidden Majority: Conservation Implications for a Threatened UK Freshwater Fish'. Final year of research investigating microplastic contamination presence and ecotoxicological impacts on lamprey larvae across Scotland, supervised by Dr Colin Bull (completion expected April 2023). Strong collaboration with ecotoxicology research team at Centre for Ecology and Hydrology in Wallingford (UK).
- 2019 ● **MSc by Research** *University of Exeter (UoEx)*
2017
Masters project researching the developmental toxicity of microplastic contamination on sea urchin larvae (publication, *Environmental Pollution*). International collaboration, with Arnone Lab group, work primarily conducted in Naples.
- 2017 ● **BSc Zoology First Class Honours** *University of Exeter*
2014
Personal research area: Investigating the adaptive significance of green fluorescent proteins in *Anemonia viridis* and the associated symbiont physiology.

EMPLOYMENT

- Apr 2022 ● **LEAPS Postgraduate Tutor** *University of Edinburgh (UoEd)*
Aug 2021
Teaching aimed at supporting students on their journey into HE. Tutorials of 12 students, teaching academic skills. Teaching practice discussions embedded in meetings to improve our teaching. (LEAPS: Lothians Equal Access Programme for Schools)
- Aug 2021 ● **Biology Tutor** *Brilliant Tutoring Programme*
Mar 2021
Supporting school pupils from less advantaged backgrounds, in groups of up to 6 online.
- June 2021 ● **Academic Support Tutor** *University of Stirling*
Nov 2020
Supporting MSc Environmental Management students in the Faculty of Natural Sciences in key academic skills, including induction events, group tutorials, 1:1 sessions, developing on-line interactive resources.
- present ● **Post-Graduate Teaching Assistant** *UoEx & UoS*
2017
Assisting with UG and PG modules, fieldtrips, lab practical, discussion seminars. Demonstrator on statistical modelling MSc course and marker for a range of BSc courses, including, Global Environmental Issues (GEOU2GE).
- Jan 2018 ● **Employability Services Administrator** *University of Exeter*
Sept 2017
Working to support Graduate Recruitment, within the Student Employability and Academic Services team at Penryn Campus. Responsible for liaising with employers to organise Career Fairs, weekly Career Zone and College of Life and Environmental Sciences newsletters.

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TRAINING COURSES

Dundee University: Creative Technologies (July 2021)

Scottish Accreditation Board:
Home Office Personal Licence (PIL A B) (March 2021)

Norwegian University of Science and Technology: Advance Outcome Pathways in Environmental Toxicology (Jan 2021)

Aalborg University Department of Civil Engineering: Microplastic analysis applying μ FTIR Imaging (Nov 2019)

INTERESTS



Outdoor pursuits, bikes, nature, rowing, circular economy, gardening. Committed to diversity and inclusion in the outdoors: Rider2Leader qualification (Women's Mountain Bike Leadership)

REFERENCES

Dr. Colin Bull
PhD Supervisor
University of Stirling
colin@atlanticsalmontrust.org

Alice Smith
Assistant Director LEAPs
alice.c.smith@ed.ac.uk

Dr. Eva Jimenez-Guri
MbyRes Supervisor
University of Exeter
E.Jimenez-Guri@exeter.ac.uk

TEACHING AND DEPARTMENTAL ACTIVITY

- Oct 2021 • **Advance Higher Education Associate Fellowship UoS**
Successful application in which a commitment to CPD and pedagogical principles were demonstrated. Currently working towards Fellow.
- 2018 • **Teaching in Higher Education (LTHE Stage 1 and 2) UoEx**
2017 Learning to Teach in Higher Education accredited at Stage 1 & 2. Demonstrator and marker for undergraduate and postgraduate programmes at The University of Exeter (UoE).
- 2019 • **Co-president for Bioscience Employability Committee (BSEC) UoEx**
2015 Student led committee which aids networking for bioscience students. Seminar series and workshops provide the opportunity for students to network within the local and national scientific community and prepare for future employment.
- 2019 • **Postgraduate Representative and Ambassador UoEx**
2015 Presentations and workshops on Open Days, talking to prospective students and giving tours. Working closely with local schools on STEM projects and scientific outreach in the local community.

FUNDING AND AWARDS

- Aug 2021 • **SAGES Postgraduate Support Fund**
Awarded £700 to support PhD research affected by COVID-19.
- Nov 2018 • **ASSEMBLE Plus Transnational Access Programme**
Awarded funding together with Eva Jimenez-Guri to complete the project titled 'The effects of microplastics on the development of sea urchins (*P. lividus*)' at the Station Zoologica Anton Dohrn – Naples.
- 2018 • **Sail Against Plastic Sponsorship**
2017 Secured sponsorship as a team of £7000 gifted by Ecover, Fugro and FXplus for research into microplastic pollution in the Arctic and scientific outreach with regards to plastic pollution in the Arctic.
- May 2018 • **Gilchrist Educational Trust**
Recipient of £500 award from Gilchrist Educational Fund for research into microplastic pollution in the Arctic.
- Apr 2018 • **Environment and Sustainability Institute Sponsorship**
£750 for the purchasing of a HydroBios Microplastic Sampling Net for the Sail Against Plastic Project.

PRESENTATIONS AND MEMBERSHIP

- present • **SAGES Graduate School Member**
- 2019 • **UK Microplastic Network** Academic Stakeholder / knowledge exchange forum
- Environment and Sustainability Institute** - film screening and presentation - Sail Against Plastic
- Scientists at Sea Podcast** - appearance to discuss plastic pollution
- The Eden Project Invisible Worlds (IW) Exhibition: Plastic Pollution**
Led multiple workshops aimed at children aged 6-14 for the opening of the IW exhibition
- BBC Spotlight: Sail Against Plastic** - collaborated to compose a short piece on microplastic pollution in Cornwall and The Arctic
- 2018 • **The National Maritime Museum Cornwall: Science of the Sea**
Presentation on "The impacts of marine plastic pollution"