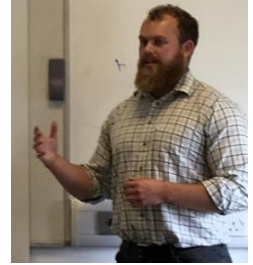


Benjamin Archer



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PhD candidate working with the Urban Water Interfaces (UWI) at the IGB-Berlin. Current project is quantifying the dynamics and drives of Berlins water system GHG fingerprint.

Education

PhD Experimental limnology | IGB-Berlin / TUB / UWI 2019 - Present

- RESEARCH PROJECT: GHG footprint of Berlins water systems
- SUPERVISORS: Mark Gessner, Peter Casper and Gabriel Singer

M.Res Environmental Biology | University of Essex 2017 – 2019

- RESEARCH PROJECT: Dynamics and Drivers: carbon fluxes from artificial freshwater lakes in the south east of England.
- SUPERVISORS: Dr Thomas Cameron (Principal supervisor) & Dr. Etienne Low-Decarie (Co-supervisor).

B.Sc (Hons) Biological Sciences | University of Essex (First class) 2014 – 2017

- RESEARCH PROJECT: Analysis of temperature dependent functional responses in European Rudd (*Scardinius erythrophthalmus*)
- SUPERVISOR: Dr. Thomas Cameron
- RELEVANT MODULES: Freshwater Ecology, Estuarine And Coastal Ecology Field Module, Pollution: Impacts And Management, Ecology: Populations and Communities, Environmental biology and eco-physiology field course, Biodiversity and Conservation
- ACHIEVEMENTS: Dean's list of excellence 2015

R for Biologists course | University of Essex | January 2018

Skills

Research, Quantitative & Laboratory Skills

- Experimental design including freshwater field and laboratory based experiments.
- Carbon flux / biogeochemical sampling using floating chamber method and cavity-ring-down-spectroscopy.
- Freshwater and marine physiochemical sampling (e.g. nutrient and chlorophyll analyses, dissolved O₂, pH)
- Gravity coring and sediment analyses.
- Freshwater plankton community preservation and species identification.
- Cyanobacteria culturing and aseptic techniques.
- Mesocosm set up and development.

IT skills

- Use of Microsoft Office, Excel, PowerPoint, Mendeley.
- Use of R in statistical analyses and data visualisation.
- Use of SPSS in statistical analyses

Communication Skills

- Presenting research in the University of Essex's environmental biology seminar series
- Presented a poster at the British Ecological Society (BES) annual Meeting 2018
- Written scientific reports, theses and risk assessments during academic studies.
- Organising sampling with lab technicians and reservoir management bodies.
- Using social media such as Twitter communicate scientific research to a wider audience.
- Teaching undergraduates as a graduate lab assistant.

Employment History

Graduate Laboratory Assistant | University of Essex | Colchester October 2017 – Present

Assisting lecturers with field work and lab practicals for undergraduate students. Demonstrating techniques and assisting in sampling.

Undergraduate Research Opportunity Programme | University of Essex | JUN 2016 – AUG 2016

Designed and set up research Rudd functional response project. Skills in fish husbandry and experimental design.

Further field work experience

Research assistant | Marine sediment productivity | May 2018

Submerged chamber technique to measure legacy effects of the September 2017 oil spill of the coast of Athens on respiration/ productivity in the field.

Practical / Research assistant | MEDSALT training school | September 2018

Collaboration between geologists, microbiologists and Astrobiologists, sampling microbes and methane flux from subterranean brine pools.

Research assistant | Freshwater sediment sampling | September – November 2018

Assisting PhD student Amie Parris in reservoir sediment core sampling and analyses, investigating the effects of chemical treatments on nutrient availability in drinking waters in the south east of England.

Interests

Member of the British Ecological Society and The Microbiology Society, enjoy nature, hiking, music, sports and scuba.

References

Dr Thomas Cameron (Lecturer in Aquatic Community Ecology and Primary supervisor for M.Res)
3SW.4.14, School of Biological Science, University of Essex, Wivenhoe Park, Colchester, CO4 3SQ
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Dr Etienne Low-Decarie (Lecturer in Ecology and environmental science and Secondary supervisor for M.Res) School
of Biological Science, University of Essex, Wivenhoe Park, Colchester, CO4 3SQ
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