

Octavian Pacioglu

Personal Details

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D.O.B. 22/11/1979

Teaching experience

- Lead a seminar in biostatistics for undergraduate students for a full academic year (2009) at Roehampton University, London, UK. Mentoring sessions with undergraduate students using a one to one approach in their research projects (data analysis and thesis dissemination) in ecology and ethology.

- Taught discussion and laboratory sections in general zoology, genetics, organic chemistry and histology for undergraduate students (Roehampton University). Marking undergraduate practical reports, essays and exams; invigilating work at exams (2007- 2010).

- Lead a course in biostatistics and research project design in ecology for scientists and PhD students (Institute of Biology, Bucharest, Romania) for four months (2013); leading debates about specific themes in ecology.

- Teach sampling techniques and general principles in aquatic ecology for undergraduate students during their practical work in the summer of 2010 (West University of Timisoara, Romania).

Key Skills

Administrative skills: Report and proposal writing, creating presentations, entering, sorting and filtering data; marking student scripts; editing, copying and scanning documents and other general administrative tasks.

IT skills: Good IT skills, including solving general computer problems that arise. Familiar with Microsoft operating systems and programs such as MS Office (Excel, Word and PowerPoint), Endnote (bibliographic), SPSS, STATISTICA, PAST, CANOCO, DECORANA, DeltaGraph (statistical analysis and multivariate statistical techniques). Beginner in R and data entry, sorting and extraction from database (Access). Confident in learning new software packages. Very good knowledge of general statistics, multivariate statistics and beginner in mathematical modeling.

Team work: All my previous jobs required working in a team, with people having different scientific and professional backgrounds, where I have successfully achieved the main objectives of the task.

Organizational skills: Organized several projects both academically and non-academically, including Masters and PhD dissertations, laboratory work and field sampling for a freshwater quality analysis company (2004), research institutes (2013/2014), field trips and projects at various research institutes (2005 and 2006) and extensive sampling campaigns in the field (PhD, 2008 and 2013). Once committed to a project I will see it through to its completion.

Communication skills: Well developed communication skills gained from giving presentation at University seminars, international conferences, tutoring students and with general daily tasks.

Education

Roehampton University, Centre for Research in Ecology, London, UK

July 2007 – February 2012

PhD in Ecology

Project – “Effect of diffuse nitrate pollution on hyporheic assemblages from lowland chalk rivers in the UK”

University of Bucharest, Dep. of Animal Biology, Romania

October 2003 – June 2005

MSc. in Zoology

Project – “The biology and ecology of Cyclops strennus in the reservoir Dopca, Brasov County, Romania”

University of Bucharest, Dep. of Systemic Ecology, Romania

October 1998 – February 2003

BSc. in Ecology

Project - “The paleoecological reconstruction of the insular landscape of Hateg, Romania”

Work Experience

West University of Timisoara, Timisoara, Romania

February 2016-present

Postdoctoral scientist

- Part of a project investigating the ecological interactions between an invasive crayfish species and two other autochthonous species from the lower Danube and its tributaries. Collect and process algal samples, macroinvertebrates and crayfish in order to assess the trophic niche overlap and the influence of environmental parameters over their diets.
- Estimations of trophic spectrum and position in food webs with the aid of C and N stable isotope and gut content analyses.

Queen Mary University of London- FBA River Communities Group, Dorset, UK

June 2013 - December 2015

Research assistant (postdoctoral scientist)

- Part of a project (team work) investigating the constraints of macronutrients (C, N and P) and nutrient flux through lotic quantified food webs.
- Collect and process algae, invertebrates and fish over a full annual cycle in order to produce quantified food webs from streams with contrasting water nutrient concentrations and geologies. Analyse elemental composition (C, N and P ratios) and stoichiometric imbalances between different types of food sources and consumers (invertebrates and fish). Analysis and determination of potential food sources assimilation efficiencies based on stable isotope ratios between food and consumers.
- Determine and quantify diet and secondary production of invertebrates and fish. Determine nutrient cycling rates through the studied food webs.
- Contribute to construction of mathematical models of nutrient fluxes through food webs.

Institute of Biology, Romanian Academy, Bucharest, Romania

February 2013 - April 2013

Research assistant

- Consultancy in the field of aquatic ecology (sampling techniques for aquatic invertebrates, taxonomic identifications).
- Lead a course in biostatistics for ecologists (scientists and PhD students).

Leibniz-Institute of Freshwater Ecology & Inland Fisheries (IGB), Germany

December 2011 - June 2012

Postdoctoral scientist

- Laboratory experiment focused on the impact of Al salts used during the restoration of eutrophic lakes on litter-shredders relationship. Monitoring sublethal effects (feeding, assimilation rate and stoichiometry) for the amphipod *Gammarus pulex* and its relation with palatability of leaves (fungi colonization).
- Field sampling trips for benthic macroinvertebrates collection from lakes treated with Al salts, taxonomic identification and preparation for analyses of Al content in tissues.

Roehampton University, London, UK

July 2007 – February 2012

PhD student

- Working on a large scale scientific research project with many deadlines and oral presentations.
- Marking undergraduate practical reports, essays and exams.
- Tutoring students in statistical methods and research project design.
- Exam invigilation.
- Providing tours and information to new students.
- January-June 2011: Research assistant in a project focused on the groundwater fauna from England and Wales (<http://new.freshwaterlife.org/web/gwa-uk>). Responsible mainly for sorting and taxonomic identification of groundwater fauna.

Specialty referent

- Responsible (part of a large team) for the approval of fish and aquaculture farm concessions and exploitation by private owners.
- Application of national laws regarding sustainable exploitation of fish.
- Responsible for the implementation of the company research policy in the designed counties.

Institute for Research and Development for Grasslands, Brasov, Romania

February 2006 – January 2007

Research Assistant

- Outdoor experiments and data interpretation on subalpine grasslands (1800 m altitude).
- Field survey using springtails (Collembola) in establishing the soil biological quality from different subalpine grasslands experimental plots.

Institute of Speleology “Emil Racovita”, Bucharest, Romania

January 2005 – November 2005

Research assistant

- Research in the field of groundwater ecology.
- Taxonomy and ecology of cave water dwelling copepods (stygobiont species).
- Took part in field surveys of groundwater and cave fauna.

Romanian Waters Ltd., Brasov, Romania

November 2003-December 2004

Biologist

- Monthly analyses and surveys of aquatic biota from streams and reservoirs of Brasov County, Romania.
- Taxonomical determination of zooplankton from reservoirs to species level and stream macroinvertebrates to the lowest taxonomic level as possible.
- Calculations of diversity and water quality indices for aquatic invertebrates.

I.G.U.T. ltd, Brasov, Romania

June 2003 – October 2003

Ecologist

- Evaluating environmental surveys, drafting documentation for obtaining environmental certifications.
- Preparing the theoretical documentation for designing and establishing the size of household and industrial effluent plants.

Interests

Outside of work my interests include: Films, theatre and socializing, but I also have a love of the outdoors and regularly take part in rock climbing, caving, winter mountaineering and rowing. I have a full and clean European driving license.

ISI web of knowledge publications:

- **Pacioglu, O.**, Moldovan, O.T., Shaw, P., Robertson, A. Response of invertebrates from the hyporheic zone of chalk rivers to eutrophication and land use (early view-Environmental Sciences and Pollution Research), 2015.
- **Pacioglu, O.**, Cornut, J., Gessner, M., Kasprzak, P. Prevalence of indirect toxicity effects of aluminium flakes on a shredder-fungal-leaf decomposition system (early view-Freshwater Biology), 2015 (special issue 2016).
- **Pacioglu, O.**, Shaw, P., Robertson, A. Patch scale response of hyporheic invertebrates to fine sediment removal in two chalk streams. Fundamental and Applied Limnology, Archive fur Hydrobiology, 181, 2012.
- Parvu, M., **Pacioglu, O.** The ecological profile of caddisflies larvae from the River Jiu (SW Romania). Knowledge and Management of Aquatic Ecosystems, 407, 2012.
- Parvulescu, L. **Pacioglu, O.** Hamchievici, C. The assessment of the habitat and water quality of the stone crayfish (*Austropotamobius torrentium*) and noble crayfish (*Astacus astacus*) species in the rivers from the Anina Mountains (SW Romania), Knowledge and Management of Aquatic Ecosystems, 401, 2011.

Other International Databases scientific papers (BDI):

- Petrovici, M., **Pacioglu, O.** The heavy metal concentrations in two species of fish from the Crisul Repede River, Romania, AACL Bioflux, 3, 2010.
- **Pacioglu, O.** The ecology of the hyporheos: a review - Journal of Cave and Karst Sciences, 36, 2009.
- **Pacioglu, O.** The biology of the species *Cyclops strenuus* (Fischer, 1851) in Dopca reservoir -Brasov county, Romania – Acta Universitatis Cibiniensis, 6, 2006.

Participation to courses and conferences

- June 2004: training stage “Initiation in the macrophytes inventory”, Bucharest, Romania
- May-June 2006: voluntary to the limnological research station from Neuglobsow, lake Stechlin, Germany -Institute of Freshwater Ecology and Inland Fishery, Berlin; laboratory and outdoor sampling techniques for the zooplankton ecology.
- September 2006: limnological summer school at fishery research station from Bicaz lake (the largest Romanian reservoir); part in a mix group (German and Romanian students and scientists) studying the zooplankton (mainly) and benthic associations from the reservoir.
- January 2008- one week course in the taxonomy and ecology of freshwater ostracods, University College London, UK
- February 2009- one week course in the taxonomy of chironomids and their use in assessing water quality, University College London, UK.
- May 2010- one week training in water mites taxonomy, F.B.A. laboratory, Windermere, Lake District, UK
- August 2009 - Oral presentation at SEFS6 conference (6th Symposium for European Freshwater Sciences), Sinaia, Romania, with the title”The impact of diffuse nitrates pollution and land use over hyporheic assemblages from lowland chalk rivers in the UK”.
- November 2009- London Freshwater Meeting Group, London, oral presentation:”The impact of diffuse nitrates pollution and land use over hyporheic assemblages from lowland chalk rivers in the UK”.
- September 2010-British Ecological Society congress, Leeds, oral presentation: ”The effect of pollution and land use over hyporheic assemblages from lowland chalk rivers in the UK”.

References

Dr. Anne Robertson, Professor
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FBA River Laboratory, Dorset, UK-
Queen Mary University of London
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http://www.igb-berlin.de/employees_limnology_of_stratified_lakes.html?show=174

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<http://www.igb-berlin.de/mitarbeitende-igb.html?show=348>

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