



Olga Vigiak

Date of birth: 08/04/1971 | **Nationality:** Italian | **LinkedIn:**

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● ABOUT MYSELF

Researcher in the field of physical geography, landscape ecology, earth system science, hydrology and environmental modelling. I am an agronomist by formation, specialized in land degradation and natural resources conservation. I worked in Africa (Eritrea, Tanzania), South-East Asia (Lao PDR), and Australia (Victoria).

● WORK EXPERIENCE

02/12/2024 – CURRENT home-based, Italy

SENIOR RESEARCHER CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI (CMCC) - CMCC.IT

- develop water quality models at European scale in land-to-sea continuum (FOCCUS project)
- write project deliverables, reports and scientific papers
- liaise with project team groups, particularly the Joint Research Centre of European Commission, CMCC, and other project partners

01/05/2018 – 30/04/2024 Ispra, Italy

RESEARCHER (CONTRACT AGENT) EUROPEAN COMMISSION - JOINT RESEARCH CENTRE

- conduct environmental modelling in support of EU policy evaluation, including scenario analysis
- develop indicators for monitoring environmental conditions (freshwaters)
- cure publication of European maps, datasets, and environmental assessments
- disseminate research findings in scientific papers, project reports, international conferences and webpages
- liaise with public and private stakeholders through workshops and international meetings

01/05/2016 – 30/04/2018 Muenchen (located in Ispra, Italy as visiting scientist), Germany

RESEARCHER (PHYSICAL GEOGRAPHY) LUDWIG-MAXIMILIAN-UNIVERSITAET MUENCHEN (GERMANY, DEPARTMENT OF PHYSICAL GEOGRAPHY)

- conduct research in the field of sustainable use of natural resources
- develop European-scale pressure indicators on waters (hydrology alteration, biochemical oxygen demand) in support of integrated basin management planning
- create European datasets and assessments feeding web-tools for integrated basin management
- disseminate research findings in international venues and scientific journals

01/04/2013 – 31/03/2016 Ispra (VA), Italy

POST-DOC FELLOW EUROPEAN COMMISSION - JOINT RESEARCH CENTRE

- model and assess sediment loads in European large basins
- assess the impact of best management practices, like riparian buffers, on river water quality at basin scale
- develop datasets and data inputs, revise and improve environmental models
- liaise with international and national stakeholders (representatives of public institutions, research universities, national experts)
- disseminate research findings in scientific papers and international conferences

01/10/2007 – 31/03/2013 Rutherglen, Australia

SENIOR RESEARCHER DEPARTMENT OF PRIMARY INDUSTRY OF VICTORIA

- conduct interdisciplinary research for water quality management, assessing impact of farm practices on freshwaters and contributing to economic assessment of efficient management plans
- perform data analysis and develop integrated basin management tools (maps, models, scenario analysis)
- plan and conduct field surveys and simulation experiments
- liaise with local basin management authorities, extension services, national and international research experts

01/05/2005 – 31/07/2007 Vientiane , Laos

POST-DOC FELLOW INTEGRATE WATER MANAGEMENT INSTITUTE (IWMI)

- plan and conduct research on the impact of riparian areas management on freshwater
- design and conduct field experiments and surveys, data analysis, environmental modelling
- supervise international and national students in applied research
- liaise with national and international researchers and local authorities
- disseminate research findings in scientific papers, national and international conferences

● **EDUCATION AND TRAINING**

02/10/2000 – 26/04/2005 Wageningen, Netherlands

PHD IN PRODUCTION ECOLOGY AND RESOURCE CONSERVATION Wageningen University and Research

- landscape degradation processes
- sustainable use of soil and water
- geographic information systems
- data analysis and statistics
- plan and conduct field experiments and surveys
- supervise master and bachelor students
- writing of scientific papers

Website www.wur.nl/en.htm | **Field of study** Environmental sciences | **Final grade** doctor |

Thesis Modelling spatial pattern of erosion in the West Usambara Mountains of Tanzania

17/08/1998 – 01/02/2000 Wageningen, Netherlands

MASTER OF SCIENCE Wageningen University and Research

- land degradation processes
- soil and water conservation
- geographic information systems, remote sensing, statistics
- design of soil and water conservation measures
- principles of economics and social aspects of land degradation

Website www.wur.nl/en.htm | **Field of study** Environmental sciences, Earth sciences | **Final grade** with distinction |

Number of credits 68 | **Thesis** Spatial modelling of wind speed reductions by windbreaks

02/09/1990 – 24/04/1996 Firenze, Italy

DOTTORE IN SCIENZE AGRARIE TROPICAL E SUBTROPICALI Università di Firenze (University of Florence)

- agricultural sciences and livestock husbandry applied to tropical and subtropical environments
- earth sciences: soil science, geology and geomorphology
- hydrology and hydraulics
- principles of economics, meteorology, genetics
- principles of mathematics, physics, chemistry, biology

Website <https://www.unifi.it/changelang-eng.html> |

Field of study Agriculture, forestry, fisheries and veterinary not further defined | **Final grade** 110/110 cum laude |

Thesis Evaluation of soil degradation processes active in a representative area of Eritrean Highland - HalHale, Debarwa