

## **Scientific writing & Publication – research papers & thesis**

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### **Course description**

This course aims to develop efficient individual skills in all the steps involved in scientific writing, from content development and organisation to publishing in ISI journals and presenting at conferences. The course is suitable for researchers, master and PhD students and all those required to publish their research findings but have none or little experience in translating research outputs into the commonly accepted publication tools. This is an exclusive opportunity to obtain in key techniques single source that enable the researcher at any level of the career to be independent and efficient in communicating science in the written and spoken formats. Particular emphasis is given on how to best meet the journal editors and reviewers demands. The teaching format includes classic classes with the additional support of exercises, simulations, videos and case studies.

### **Objectives**

At the end of the course the participants will be able to:

- Plan and develop research papers and thesis in the scientific format (Introduction-Methods-Results-Discussion)
- Prepare papers for ISI journals
- Submit papers to ISI journals and effectively dialogue with journal editors and reviewers

### **Target Audience**

- Research students at the graduate and post-graduate levels including ERASMUS
- Company staff involved in research and required to publish their activity in the papers format or participate in scientific conferences,
- Particularly suitable for those with none or little experience in writing in science

- All those interested in acquiring baseline skills in writing and publishing research papers and participate in conferences.

## Contents

### 1. Scientific communication

- Contextualisation of the scientific communication
- Techniques for an efficient scientific communication (dialogue in the research, academic and industry contexts)

### 2. Tools of the scientific communication: planning, writing and submitting for publication

- Introduction to the scientific communication tools: research papers, conference communications and thesis.
- Tool planning according to the target audience
- Writing of research papers and thesis
  - content planning and organisation techniques
  - the Introduction, Methods, Results and Discussion sections (IMRAD)
  - organization and development of contents in the IMRAD structure
- Research papers submission and publication process
  - how to prepare the paper for submission to ISI journals
  - instructions for authors and its application in the paper
  - how to do online paper submissions
  - how to write journal editor and reviewers letters
  - how to communicate with the editor and reviewer
  - how to proof-read the research paper

### 3. Analysis of participants own work

- Analysis exercises based on the participants thesis and papers sections (consulting opportunity) or of given examples

## Instructor

Ana Silva is a senior researcher at DECivil at IST in the area of groundwater ecology. She obtained her PhD at the University of Plymouth (U.K.) and her degree at the university of Lisbon-Faculty of Sciences. She's an experienced 1<sup>st</sup> author of many research papers and co-author of several others. She's an invited reviewer for over

10 ISI journals in her field including that of the highest impact factor. She has undertaken several international courses in scientific writing and communication, experimental design, teaching techniques and statistical analysis. She has developed and lectured several national and international courses and the present course has received very high evaluations from over 300 participants.

Duration: 20 hours

Course schedule: 6 to 14 July

Location: IST (Pav. Eng<sup>a</sup> Civil)

Course Fee:

- IST Students, Researchers and Alumni **90€**
- Students from other Schools of ULisboa **126€**
- External Applicants **180€**