

SCC5933 - Metodologia de Pesquisa Científica em Computação

SCC5933 - Methodology for Scientific Research in Computer Science

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Main goals

- To introduce the graduate students to understand and practice scientific research in computing as well as to develop skills necessary for a researcher, providing them background in robust scientific approaches.

Motivation

- Making the students able to develop and evaluate their graduate research, introducing them to the specific area and computing requirements, aiming at improving their critical thinking for research.

Topics

1. Introduction and Motivation to the Scientific Research: quantitative and qualitative research, experimental design, statistical tests.
2. Bibliographical Research Methodology and its Evaluation: research and scientific work in computing, characteristics of the area, research topics, review and validation, and publication types forums resulting from work and its impact, intellectual property and plagiarism. Research ethics.
3. Methods for Writing Scientific Texts (articles, projects, monographs and reports theses): techniques and tools.

Research

- Plagiarism and Fraud
- Intellectual Property
- Importance of writing well
 - Style and Grammar
 - Read and Write in English
 - BBC Radio
 - Newspapers
- Tasks in this course will be in English

Material

- MOOC Understanding Research Methods
 - University of London & SOAS University of London
 - Shortlisted for the Guardian Higher Education Awards 2015 in the 'Online and distance learning' category
 - Coursera
 - Register in the link:
 - <https://www.coursera.org/learn/research-methods/home/welcome>



Material

- Five weeks course
 - Videos
 - Texts
 - Tasks
 - Submit essays and evaluations
 - Send to e-disciplinas (USP) and coursera course site

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Material

Runner-up: University of London International Academy/SOAS, University of London Advertisement

Understanding research methods, offered in partnership by SOAS, the University of London International Academy (UOLIA) and Coursera, is a massive open online course (MooC) offering research skills for students.

The course is innovative in two main ways: first, it is built around a learning community where all participants – instructors and students alike – share their research experiences and collectively develop their understanding and skills. Second, it uses a series of “In conversation with ...” videos (rather than the standard talking head approach) that feature a full range of research experiences and reflections from students and academics.

The approach emulates the real-world research experience, where a piece of work is communicated, challenged and improved through consultation with professional colleagues. It also gives students the opportunity to interact with peers from different cultural and professional backgrounds around the world.

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About this MOOC

- Demystify research and research methods
- Outlines the fundamentals of doing research, aimed primarily, but not exclusively, at the postgraduate level
- Places the student experience at the centre of our endeavours
 - By engaging learners in a range of robust and challenging discussions and exercises

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About this MOOC

- Appeal to those requiring an understanding of research approaches and skills,
 - and importantly an ability to deploy them in your studies or in your professional lives
- No prior knowledge or experience in research is required to take this course
- Participation in or completion of this online course will not confer academic credit for University of London programmes


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About this MOOC

- E-tivity 1: What Is Research and What Makes a Good Research Question?
- E-tivity 2: What Is a Literature Review and Why Do We Need to Do One?
- E-tivity 3: Why Are Planning and Management Skills Important for Research?
- E-tivity 4: How Do You Know You Have Been a Good Researcher at the End of a Project?

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Questions?



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