Initiation to Research (MPRI Course 1-36)

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OBJECTIVES AND METHODS OF THE COURSE

Objectives:

- Teach some of the required skills & know-how for scientific research (in computer science)

- Teach it by practice, not by theoretical lectures

Methods:

- Students join scientific working groups supervised by experienced researchers, similar to research internship

- Each group gathers weekly, participants have work-to-do between weekly meetings

- Supervisors give explicit feedback

SPECIFIC REQUIRED SKILLS/KNOW-HOW FOR RESEARCHERS

Rules and procedures for conducting experiments (ethics, traceability, reproducibility, ..)

Rules and procedures for publishing results (writing, bibliography, peer-review, ..)

Communication (esp. with international audiences)

Teamwork (communication, synchronisation, ..)

Also: Finding funds for research, Securing a permanent academic position, ..

Also: Frauds in scientific research, BigPub, ..

etc.

WORKSHOPS ORGANISED THIS YEAR

4 short workshops spanning 1st half of 1st semester (6 weeks, starting Sep. 23rd)

4 short workshops spanning 2nd half of 1st semester (6 weeks, starting Nov. 18th)

Each student participates in two short workshops

TODO: State your preferences by emailing me `phs@lmf.cnrs.fr` before Friday 9AM. Make sure your email has your name on it.

WORKSHOPS ON OFFER THIS YEAR

Short workshops for 1st half of semester:

"Type Systems and Programming Languages", supervised by V. Zamdzhiev

"Algorithms for SLP-compressed words", supervised by Ph. Schnoebelen

"Interpolation in Logic and Computer Science", supervised by S. van Gool

"Communicating automata", supervised by L. Lapointe

Short workshops for 2nd half of semester:

"Fast-Track to Research Writing", supervised by M. Függer and Th. Nowak

"Discrete and continuous models for concurrent systems: from Petri nets to directed spaces", supervised by U. Farhenberg

"Publishing your mémoire de stage", supervised by Ph. Schnoebelen

"How to communicate about basic computer science with the rest of the world", supervised by L. Lapointe