

Semester 10 - Master Project

Master of Science in Informatics at Grenoble 2

Massih-Reza Amini, Akram Idani

Finding your Project (Hints)

- Be Proactive. Choose a subject area that YOU are interested in (Have a periodic look at <http://im2ag-pcarre.e.ujf-grenoble.fr/>),
- Discover the local research groups in that area (google scholar, web, publications);
- Contact local academics. Tell them what YOU want to study. Discuss with them;
- Negotiate a project with a professor or researcher;

Process

- You can choose either professional or research internship; and, your subject should be approved by MoSIG directors
- If you choose an internship outside Grenoble or in a company you have to ask a professor to be your **tutor**
- Once your subject approved you have to register, by choosing the date of your defense (June or September) and filling this form:

<https://framaforms.org/mosig-m2-internships-1568630484>

Without this registration your defense will not be programmed

Once you have your project and director

- Once your project is validated you need a “*Convention de stage*”.
- The contract is between YOU, your university, and the directors Laboratory or research establishment.
- In many cases, the contract is necessary for a badge, computer account, desk, etc.
- Stipend: About 3,8€/hour on the basis of 35h/week. Making it to be typically 530 €/month tax free.

Conventions for students registered at UFR IM2AG

- Download and complete an information form in English or French: (Forms on at <http://mosig.imag.fr/MainEn/Projects>)
- Send the completed form to : gest_stages.im2ag@univ-grenoble-alpes.fr
- You will receive instructions by email.
- Have your contract signed by the Laboratory or company hosting the project.
- Return the signed form to the UFRIM2AG (carole.durand@univ-grenoble-alpes.fr or sophie.urbanc@univ-grenoble-alpes.fr) for signature by the University.

Conventions for students registered at ENSIMAG

- Complete an Internship application using <https://stages.grenoble-inp.fr/etud-ensimag> using your INP login
- Wait for confirmation that the subject has been validated.
- Complete the online agreement with additional information (new fields in the form).

The Master Research and Professional Projects

The masters project is a "mini-thesis".

Essential Elements of Masters Project

- A clearly defined problem
- Situated within the scientific state of the art
- A proposal for one or more solutions
- Studied by an experiment, implementation or analysis and validated or evaluated by objective measurements

The Master Report

The report may be written in English or French. It must be

- Well structured: introduction, problem, state of the art, implementation, evaluation, conclusion).
- Well Written: Proper Grammar, paragraph structure, bibliography
- Clear, concise and readable

Ideal Size: 40 ± 10 pages.

Introduction: Describe context, problem, approach, and results

Body: Analysis the problem, state of the art, implementation, experiments

Conclusions: Lessons learned, compare predictions to observations.

The Jury

Jury will be composed of:

- 1) One of the theme's directors.
- 2) Your supervisor
- 3) Your tutor (if internship in a company or outside Grenoble)
- 4) An external expert named by your supervisor.
- 5) The examiner

You must make sure that all jury members receive an electronic copy of the report **a week before** the defense.

Project Presentation

Dates :

First session: 27 June – 1 July June 2022

Second session: 29 August - 2 September 2022

1 hour per student: **25 minutes** presentation (**we will cut you off at 30 minutes**) Questions: **20 min.** Deliberations: **15 min.**
5 min to install next student.

Practice your presentation!

Evaluation Criteria

Masters Research Projects are assessed with the following criteria:

- 1) The supervisor's judgement (20%)
- 2) The external reviewer's judgement(20%):
- 3) Defense itself (60%)

Professional Master Projects are assessed with the following criteria:

- 1) The supervisor's judgement (20%)
- 3) Defense itself (80%)

Doctoral Study

Local (informal) rule. If Masters average (classes and project) is

- > 12 - Automatic admission for a thesis.
- > 11 - Admission if supervisor defends student
- < 11 - Doctoral study is discouraged
- < 10 – Masters degree not awarded.

You are allowed to repeat ONE year of the 2 year program.

Doctoral Supervisor:

- Must have the Habilitation (HDR) or be co-supervised by an HDR
- May be in a research group
- May be in industry.
- In France, Doctoral study should be completed with 36 Months.

Doctoral Study

Doctoral study in France is for 36 months and must be Grants are for 36 months.

Sources of Doctoral Funding (competition with all areas of Math-Info:

- Ministry (MESR) Grants (approx 4 - 8 for MoSIG students)
- LabEx, IDEX grants (approx 4 - 8 for MoSIG students)
- Research contracts (EU projects, ANR, Industry): 10 to 20 for MoSIG.
- Region Rhone-Alpes Doctoral Grants: 1 or 2
- CEA Doctoral Contracts: 1 or 2
- CIFRE (Industrial Research) Grants: 10 to 20 per year for MOSIG

CIFRE Grant: Student is an "CDD" employee of an Corporation. Corporation receives a government subsidy. Student must have an HDR Co-advisor.