

# Master in Cognitive Science and Applications (SCA)

Natural Language Processing (TAL) specialization

September 5, 2011

# TAL specialization

- one of the specializations of the **Master SCA** (Cognitive Science and Applications)
- based on two research laboratories: **LORIA** for computer science and **ATILF** for linguistics
- involved in the Erasmus Mundus program **LCT** - Language and Communication Technologies

# Organizational staff

- **Maxime Amblard**, head of the Master SCA and in charge of the TAL Specialization, [amblard@loria.fr](mailto:amblard@loria.fr) LORIA C-302
- **Sylvain Pogodalla**, Erasmus Mundus local coordinator, [pogodalla@loria.fr](mailto:pogodalla@loria.fr), LORIA C-302
- **Corinna Anderson**, specific EM administrative issues, [corinna.anderson@loria.fr](mailto:corinna.anderson@loria.fr), B-215
- **Isabelle Gustaw**, administrative issues, [isabelle.gustaw@univ-nancy2](mailto:isabelle.gustaw@univ-nancy2), Pôle Lorrain de Gestion

# Introduction courses

- Next week
  - python (Guy Perrier)
  - French courses
  - linux (Sai Qian)

# All students

- **4 fundamental courses** <http://talc.loria.fr/Second-year-courses.html>
  - 40h (20 Lecturing hours - 20 Tutorial hours) each
  - 5 ects each
  - from September the 19th to the middle of November.
    - **Logics** (Philippe de Groote) and **Statistics** (Kamel Smaili) for Language Modeling
    - **Tools and Algorithms for NLP** (Guy Perrier)
    - **Text Mining and the Semantic Web** (Amadeo Napoli and Yannick Toussaint)
    - **NLP applications** (Sai Qian and Claire Gardent)
- **NLP and/or Professional seminar**

# First year EM and Research Master students

- **4 optional courses** <http://talc.loria.fr/-Optional-UE-.html>
  - 20h (10 Lecturing hours - 10 Tutorial hours) each
  - 2,5 ects each
  - from middle of November to beginning of January
  - To be selected among 6 courses:
    - **Computational semantic** (Sylvain Pogodalla)
    - **Corpus Linguistics, Linguistic Resources and Normalization** (Karën Fort)
    - **Grammatical Formalisms** (Bruno Guillaume)
    - **Lexicology and lexicography** (Eva Buchi)
    - **Models of Discourse and Dialogue** (Maxime Amblard)
    - **Database and web technology** (Bertrand Gaiffe, Ollinger Sandrine and Etienne Petitjean)
    - **Phonetic** (Anne Bonneau)
- **NLP seminar** (Claire Gardent) - Tuesday afternoon.

# Professional Master students

- **2 optional courses** to be selected among 7 courses in the previous list, 2.5 ects each
- **2 compulsory modules** shared with the other option (SCMN) of the master SCA, taught in French:
  - gestion de projet/ préparation à l'embauche (start this week), 2.5 ects
- professional seminar (Christine Bourjot and Maxime Amblard).

# Research Master students

## Master thesis, 30 ects

- based on a **research work**
- from end of **January** 2012
- to be defended in **June** (after a presentation at the NaTAL workshop)
- a selection of topic is going to be offered in the course of november.

# Professional Master students

Master thesis, 30 ects

- based on a professional internship
- from end of January 2012
- to be defended at the beginning of September

## first year EM students

- First semester (from now to January) : same courses as M2 students
- second semester : **5 compulsory courses** from the beginning of February to the end of May
  - Mathematics for Computer Science (?), 20h, 4 ects
  - Neural Networks (Yann Boniface), 40h, 6 ects
  - Programming for NLP (Sai Qian), 30h, 5 ects
  - Introduction to linguistics (Corinna Anderson), 30h, 5 ects
  - Lexicons (Alain Polguere), 30h, 5 ects
- A **supervised project** (projet tutoré): group work, supervised by a member of the teaching team, 5 ects

# First semester

- from **September 19th** to **November 10th**: fundamental courses
- from **November 14th** to **November 20th**: compulsory course exams.
- beginning of **November**: presentation of the topic proposals for the Master Thesis
- beginning of **December**: choice of the topics for the Master thesis by the student and validation by the teaching team
- beginning of **December**: list of possible projects for first year students (projets tutorés).
- from **November 21th** to **January 20th**: optional courses
- from **January 23th** to **January 27th**: optional course exams

## Second semester

- for **February** to **June**: Master Thesis or Second semester courses
- beginning of **March**: second session of exams
- beginning of **June**: master thesis defences
- beginning of **June**: Projets tutorés defences
- middle of **June**: juries of Master Thesis

## First semester

- for evaluation, the **average** is computed from the marks obtained in the **8 courses** with a coefficient proportional to the ects credits
- the semester is passed if the average is at least **10/20** and if **no mark is less than 6**
- for the students who do not pass the semester after the first session of exam, there is a second session. **The marks** of the second session **automatically replace** the **corresponding marks** of the first session.
- **only students who failed a semester could attend the second session** (for courses above 10).

## Second semester

- for the first year Erasmus Mundus students, the study regulation is the same than for the first semester
- for the second year students, the semester is passed is the mark for the master thesis is at **least 10** (for courses above 10).



