Candidate :
Brice Olivier

Supervisors :
Jean-Baptiste Durand (LJK/Inria)

Anne Guérin-Dugué (GIPSA-lab)
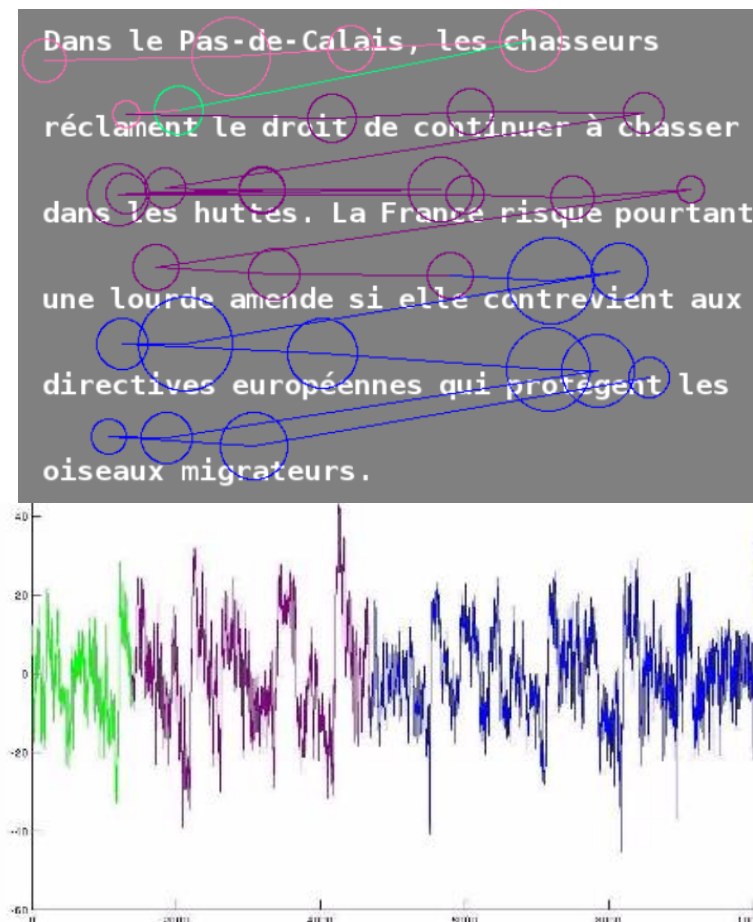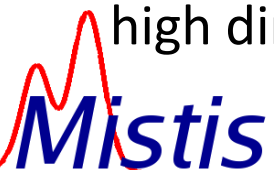Marianne Clausel (LJK)

Funding :
PERSYVAL-lab

Joint analysis of eye-movements and EEGs using coupled hidden Markov and topic models

Background

2015 - **Knowledge Discovery in Databases master's-degree** – *Université Lumière, Lyon*

- 5-month internship at ERIC lab. : Data warehousing and OLAP analysis for textual data
- 6-month internship in Mistis team, Inria : Robust high dimension regression

PhD Thesis

1. Modelling **eye-movements** and **EEGs** of different subject while they processing textual information with coupled **Hidden semi-Markov models**
2. Analysis of the covariates (text, word length, etc.)
3. Use topic models to analyse link between semantic information and readers behavior