Computational linguist & NLP Developer

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Profile

I am a **computational linguist** with strong **programming** and technical skills, experienced in **Natural Language Processing** (NLP) and **machine learning** with TensorFlow. I am currently working on automatic **coreference resolution** and have developed several **programs and tools**. I have also published **research papers** in scientific journals and international conferences.

Relevant Work Experience

Computational Linguist (Natural Language Processing)

Strasbourg University 10/2017 — present

- adapted and trained a **coreference resolution neural network system** for French (originally for English)
- created **databases** for linguistic research on coreference
- added **semi-automatic annotation layers** to English and French corpora
- studied linguistic and statistical **coreference chain modelization**
- participated in the Democrat project from the French National Research Agency

Teaching Assistant: Language Technologies (Master level)

Faculty of Languages, Strasbourg University, Computer Science Dept. 09/2019 — 05/2020

- taught courses on textual data statistical **analysis with R**; **Python** programming; **web development**; XML; Linux command line...

Teaching Assistant: Linguistics (Bachelor level)

09/2017 — 08/2019

Faculty of Literature, Strasbourg University, Department of Linguistics

- taught introductory courses on **linguistics** and **syntax**, language change...

Developer and Annotator

02/2017 — 08/2017

Lilpa Laboratory (Research Unit 1339), Strasbourg University
internship for the Democrat project from the French National Agency (ANR-15-CE38-0008)

- developed a **drag-and-drop interface** for coreference chain annotation
- participated in the **annotation guidelines** writing and **annotated texts**
- **organized training sessions** on annotation softwares and made video tutorials
- managed annotation tasks for team work

Education

Language Technologies (Master degree)

2017

Strasbourg University

- Thesis: developed an end-to-end **rule-based coreference resolution system**

French linguistics (Master degree)

2017

Strasbourg University

- Thesis: studied **coreference chains in research articles**: corpus building (webscraping), annotation guidelines, annotation, statistical analysis

Classical studies: Greek and Latin (Bachelor degree)

2015

Strasbourg University

Philosophy (General Academic Studies Degree)

2005

Marc Bloch University (Strasbourg II)

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Skills

Programming

Python, **Java**, Perl

Web development

Javascript, **PHP**, MySQL
Django, Nginx, SSL, ssh
HTML, CSS, Bootstrap, jQuery

Tools

statistics: **R**, **Pandas**, Matplotlib
machine learning:
TensorFlow, Weka, scikit-learn
language processing:
Stanford **CoreNLP**, **NLTK**, Spacy
corpus analysis: TXM, Unitex
version control: Git, **GitHub**

Plateforms

Linux (Ubuntu, Fedora)
Windows 7 et 10

Languages

French: native
English: professional
German: beginner

Scientific publications

9 peer-reviewed articles in scientific journals and international conferences,
8 communications in workshops and seminars,
among them **6 are in English**

All my experiences, publications and projects at:

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