Chloé Braud

CV

Personal Information

Born August 5, 1984 - France

Email chloe.braud@gmail.com

Citizenship French

Current position : Postdoc in NLP - University of Copenhagen

2016-... **Postdoc in Natural Language Processing**.

Topic Cross-lingual and Cross-domain Discourse Processing

Laboratory CoAStaL, Department of Computer Science, University of Copenhagen.

Description Discourse relations – such as Explanation or Contrast – organize a document into a structure that can be used to make inferences about the document content and to reveal the most important parts of the text. Discourse parsing has shown to be useful for several applications, such as automatic summarization, sentiment analysis or machine translation. However, most of the existing work has focused on English and on newswire. My project is to improve existing discourse parsers and to develop discourse parsers for other languages and domain using transfer learning methods. I also explore downstream evaluation of discourse parsing, namely to what extent NLP applications can benefit from automatic discourse analysis.

Research Experience

2011–2015 **Ph.D. thesis in Natural Language Processing**.

Title Implicit Discourse Relation Identification Using Manually Annotated Corpora and Raw Data

Laboratory University Paris 7, INRIA, team Alpage

Advisors Laurence Danlos and Pascal Denis

Description Identifying implicit discourse relations is a challenging task, as we lack strong surface cues like a discourse marker. Nonetheless, implicit relations are very widespread in naturally-occurring data and current discourse parsers performance are mostly lowered by errors on implicit relation labeling. Rather than incorporating information by assuming the availability of automatic tools and lexical databases. On the contrary, I tried tackling this complex problem using weakly supervised strategies, relying on automatically annotated data and adaptation algorithms, or on unsupervised word representations.

2011 **Master's thesis in Natural Language Processing**.

Title Automatically Identifying Implicit Discourse Relations in French

University University Paris 7

Advisor Pascal Denis

Description Identifying discourse relations as *contrast* or *explanation* between text segments is an important step for discourse analysis. Implicit discourse relations, that is, relations that are not marked by a discourse connective, are the most difficult to identify. We build a system for French that automatically identifies such a relation between text segments achieving results as precise as in the English state-of-the-art.

2010 **Research internship in Natural Language Processing**.

Title Estimation of the Confidence to be Granted to an Answer in a Question Answering System

Laboratory Laboratoire d'Informatique pour la Mécanique et les Sciences de l'Ingénieur (LIMSI-CNRS Orsay, France)

Advisors Xavier Tannier and Véronique Moriceau

Description Evaluation and improvement of a Question Answering system : study of the outputs of the system on several shared tasks and the various scores produced by the system for each answer, proposal of additional rules and a new score combining weighted versions of each existing score.

Awards

2016 **Best PhD award**, *ATALA*.

2013 **Best paper award**, *TALN*.

Education

2012–2015 **Ph.D. in Natural Language Processing**, *University Paris 7 - INRIA,* Alpage, Paris.
Title : Implicit Discourse Relation Identification Using Manually Annotated Corpora and Raw Data
Defended : 18 December 2015, University Paris 7
Distinction : Very Honorable, with Committee Praise

2012–2014 **Other training**, *University Paris 7 Diderot*, Paris.
Among the mandatory courses selected : teaching methods, the academic research and its evaluation, the intellectual property, and the use of tools such as LateX, Zotero and Illustrator (15 days).

2013 **Lisbon Machine Learning School : Learning With Big Data (LxMLS)**, Lisbon.
Lectures and practical sessions in Machine Learning and Natural Language Processing (Google grant).

2010–2012 **Master's degree in Natural Language Processing**, *University Paris 7*, Paris.
Equivalent to a Master's degree and a Research Master's Degree in Natural Language Processing : computing and linguistics lessons, with emphasis on machine learning techniques and natural language processing problems.
Distinction : With highest honors

2009–2010 **BA degree in Natural Language Processing**, *University Paris 4 Sorbonne*, Paris.
Equivalent to BA : Introduction course in computing and computational linguistics.

2006–2008 **Master's degree in Literary Studies**, *University Paris 4 Sorbonne*, Paris.
Equivalent to a Master's degree in Literature : French and comparative literature, diachronic study of French, stylistic and French grammar.

2004–2006 **BA degree in Language and Literary Studies**, *University Paris 4 Sorbonne*, Paris.
Equivalent to BA : French literature, introduction course in linguistics, French grammar, Ancient and Middle French and Latin.

2002–2003 **One-year intensive program in mathematics and physics**, *Lycée Fermat*, Toulouse (France).

Invited Talks

2015 **University of Copenhagen**, *Denmark.*

2013 **University Paris-Sud (LIMSI)**, *France*, Seminar series.

Participation in Research Projects

2016- **Textlink**, *Representative of Denmark to the Management Committee of the COST Action TextLink (IS1312)*, `http://textlink.ii.metu.edu.tr/`.

2012-2016 **Polymnie**, *Member of the Polymnie research project*, `http://semagramme.loria.fr/doku.php?id=projects:polymnie`.

Service

Conference Organizing

— Participation in organizing the conference ConSOLE XXIII

Reviewing

— Reviewer for ACL, EACL, EMNLP, ConLL, Coling, ConSOLE

Memberships in professional organizations

— The Association for Computational Linguistics (ACL)

— The French Association for Natural Language Processing (ATALA)

Teaching Experience

2012–2014 **Teaching Instructor in Natural Language Processing**, *University Paris 7, M1 Computational Linguistics.*
Computational Semantics : tutorial and practical work (24h per year)

2012–2014 **Lecturer in Computer Science**, *University Paris 7, L3 Computational Linguistics.*
Introduction to Object-Oriented Programming with JAVA : lecture and practical work (24h per year)

2013–2014 **Lecturer in Natural Language Processing**, *University Paris 7, L1/L2/L3 Humanities.*
Introduction to Natural Language Processing : lecture, tutorial and practical work (12h per year)

2012 **Tutoring in Natural Language Processing**, *University Paris 7, L3 Computational Linguistics.*
Tutoring in Computational and Theoretical Linguistics (12h)

Languages and skills

Spoken Languages

— French : native speaker

— English : working knowledge

Programming Languages

— Python, Java, Perl