

# Curriculum Vitae

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## Anaïs OLLAGNIER Junior fellow in AI

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Born in September 21st 1989 in NICE (ALPES-DE-HAUTE-PROVENCE).



An enthusiastic, adaptive and fast-learning person with a broad and acute interest in the discovery of new information retrieval processes, I particularly enjoy collaborating with scientists from different disciplines to develop new skills and solve new challenges.

### SKILLS

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<b>Tools</b>	Geany, Spyder, NetBeans, Vim, Eclipse, Maven, git, Visual Studio
<b>NLP</b>	preprocessing, data analysis and modelisation, classification, topic and language modeling, clustering, named entity recognition, information extraction, text generation, event detection, recommender systems, graphs, Stanford CoreNLP, spaCy, Scikit-Learn, Gensim, Keras/Tensorflow, Neo4j, NetworkX, Hadoop
<b>Languages</b>	Python, Java, C, R, HTML, CSS, PHP, Javascript
<b>Database Management</b>	Oracle Database, Microsoft SQL Server, MySQL, PostgreSQL
<b>Research and Planning</b>	identifying problems, gathering information, developing evaluations, calculating results
<b>Miscellaneous</b>	Flask, OpenCV

### CURRENT POSITION

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<b>Present</b> February 2023	<b>Junior fellow in AI, INSTITUT 3IA CÔTE D'AZUR, France</b> <ul style="list-style-type: none"><li>&gt; Development of new methods addressing high-level linguistic analyses;</li><li>&gt; Solutions aiming at detecting online hate on social media platforms;</li><li>&gt; Creation of teaching content dedicated to develop the education in AI.</li></ul>
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### EDUCATION

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2017	PhD in Computer Science, University of Aix-Marseille <ul style="list-style-type: none"><li>&gt; Development of a classification model dedicated to verbose queries aimed at improving the understanding of user needs;</li><li>&gt; Development of a system to automatically extract bibliographical references and identify links between the contents utilising graph algorithms;</li><li>&gt; Design a system which recommends readings based on the analysis of bibliometric measurements.</li></ul>
2012	Master's Degree in NLP (Natural Language Processing), University of Aix-Marseille (Title : Automatic treatment of spoken corpora, LIF, Written and Spoken Language Processing Group (TALEP))
2010	Bachelor's Degree in Language sciences, University of Aix-Marseille (option : Computational linguistic)
2007	High School Diploma in literature, Périer Secondary school, Marseille

### WORK EXPERIENCE

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<b>January 2021</b> <b>January 2023</b>	<b>Post-doctoral fellow in Computer science, UNIVERSITY OF CÔTE D'AZUR, France</b> <ul style="list-style-type: none"><li>&gt; Design of a novel pipeline aiming at identifying and preventing cyberbullying on social media;</li><li>&gt; Development of resources to address and evaluate the task of online hate detection;</li><li>&gt; Development of tools to identify bullying situations in private instant messaging platforms.</li></ul>
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December 2020 December 2018	<p><b>Post-doctoral fellow in Computer science, UNIVERSITY OF EXETER, United Kingdom</b></p> <ul style="list-style-type: none"> <li>&gt; Collaboration with major universities and influential industries (University of Exeter, University of Sheffield, IBM, Institute of Coding) in the development of an automated and personalized career exploration system;</li> <li>&gt; Development of tools allowing the automatic extraction of skills and the generation of personalized job role networks;</li> <li>&gt; Development of a topic modeling technique aimed at improving topic coherence and clustering quality from data extracted from social media platforms;</li> <li>&gt; Development of methods for event classification and detection in multilingual contexts.</li> <li>&gt; Implementation of a novel data augmentation pipeline based on a text generation approach for synthesizing labeled-data.</li> </ul>
February 2014 November 2013	<p><b>Project collaboration : Digital Library for Open Humanities (DILOH), CENTRE POUR L'ÉDITION ÉLECTRONIQUE OUVERTE, Marseille, France</b></p> <ul style="list-style-type: none"> <li>&gt; Evaluation and improvement of descriptive functions dedicated to the identification, extraction and annotation of structured bibliographic references.</li> </ul>
May 2013 Novembre 2012	<p><b>Trainee : Automatic categorization of articles from the Web, GREEN IVORY, Strasbourg, France</b></p> <ul style="list-style-type: none"> <li>&gt; Development and implementation of a named entity recognition tool;</li> <li>&gt; Development of an application to identify trends in reading;</li> <li>&gt; Implementation of a concept extractor tool;</li> <li>&gt; Design of a domain ontology.</li> </ul>
August 2012 Juin 2012	<p><b>Project collaboration : Recognition of persons in audiovisual programs (PERCOL) (PERCOL), UNIVERSITY OF AIX-MARSEILLE, Marseille, France</b></p> <ul style="list-style-type: none"> <li>&gt; development and implementation of a video annotation guidelines aiming to improve descriptor extraction.</li> </ul>
June 2012 January 2012	<p><b>Internship : Automatic treatment of spoken corpora, UNIVERSITY OF AIX-MARSEILLE, Marseille, France</b></p> <ul style="list-style-type: none"> <li>&gt; Collaboration to the DECODA project (improve both alignment of morphosyntactic labels and dependency parsing);</li> <li>&gt; Collaboration to the PERCOL (study of descriptor extraction methods)</li> </ul>
August 2011 June 2011	<p><b>Internship : Alternative communication platform, LABORATOIRE PAROLE ET LANGAGE, Aix-en-Provence, France</b></p> <ul style="list-style-type: none"> <li>&gt; Improvement of descriptors involved in the application of syntax labels during the automatic generation of sentences;</li> <li>&gt; Optimization of icons and user interface.</li> </ul>

## TEACHING EXPERIENCES

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- 2022-2023 Assistant professor, University Côte d'Azur
- > Web development (L2 Informatique)
  - > Introduction to AI (M2 Droit algorithmique et gouvernance des données)
- 2021-2023 Work part-time, University Côte d'Azur
- > Web development (L2 Informatique)
- 2020 Invited lecture, Faculty of Science, University of Bath
- > *Title* : Recommender systems
- 2017 - 2018 Temporary Assistant, Teaching and Research, Graduate school of science and engineering Polytech'Marseille
- > Web development (PEIP)
  - > Introduction to programming languages (PEIP)
  - > Programming and C (PEIP)
  - > Programming and JAVA (G2I)
- 2014 - 2017 Education instructor, University of Aix-Marseille
- > Computer science introduction (BA Degree of Mathematics-Computer science)
  - > Office tools and C2i (BA Degree of Mathematics-Computer science)
  - > Programming language (BA Degree of Mathematics-Computer science)
  - > XML (Master's degree)

## LANGUAGES

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French ●●●●●  
English ●●●●○

## FORCES

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- > Passionate
- > Motivated
- > Autonomous