Curriculum Vitae

Anaïs OLLAGNIER
Post-doctorant fellow in Computer Science

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⌖ University of Côte d'Azur, Inria, I3S, 930 route des Colles - Bât. Les Templiers 06903, Sophia Antipolis, cedex, France
ⓘ 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

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

⌨ CURRENT POSITION

Present
January 2021

Post-doctoral fellow in Computer science, UNIVERSITY OF CÔTE D'AZUR, France
> Design of a novel pipeline aiming at identifying and preventing cyberbulling on social media ;
> Development of novel metrics and a new mulvi-view clustering method to improve the detection of communities.

🎓 EDUCATION

2017   PhD in Computer Science, University of Aix-Marseille

> Development of a classification model dedicated to verbose queries aimed at improving the understanding of user needs ;
> Development of a system to automatically extract bibliographical references and identify links between the contents utilising graph algorithms ;
> Design a system which recommends readings based on the analysis of bibliometric measurements.

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

December 2020
December 2018

Post-doctoral fellow in Computer science, UNIVERSITY OF EXETER, United Kingdom
> 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 ;
> Development of tools allowing the automatic extraction of skills and the generation of personalized job role networks ;
> Development of a topic modeling technique aimed at improving topic coherence and clustering quality from data extracted from social media platforms ;
> Development of methods for event classification and detection in multilingual contexts.
> Implementation of a novel data augmentation pipeline based on a text generation approach for synthesizing labeled-data.

February 2014 – November 2013	Project collaboration : Digital Library for Open Humanities (DILOH), Centre pour l'Édition Électronique Ouverte, Marseille, France
	› Evaluation and improvement of descriptive functions dedicated to the identification, extraction and annotation of structured bibliographic references.
May 2013 – Novembre 2012	Trainee : Automatic categorization of articles from the Web, GREEN IVORY, Strasbourg, France
	› Development and implementation of a named entity recognition tool;
	› Development of an application to identify trends in reading;
	› Implementation of a concept extractor tool;
	› Design of a domain ontology.
August 2012 – Juin 2012	Project collaboration : Recognition of persons in audiovisual programs (PERCOL) (PERCOL), University of Aix-Marseille, Marseille, France
	› development and implementation of a video annotation guidelines aiming to improve descriptor extraction.
June 2012 – January 2012	Internship : Automatic treatment of spoken corpora, University of Aix-Marseille, Marseille, France
	› Collaboration to the DECODA project (improve both alignment of morphosyntactic labels and dependency parsing);
	› Collaboration to the PERCOL (study of descriptor extraction methods)
August 2011 – June 2011	Internship : Alternative communication platform, Laboratoire Parole et Langage, Aix-en-Provence, France
	› Improvement of descriptors involved in the application of syntax labels during the automatic generation of sentences;
	› Optimization of icons and user interface.

Teaching Experiences

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

French ●●●●●
English ●●●●○

Forces

› Passionate
› Motivated
› Autonomous

PUBLICATIONS

NATIONAL JOURNAL

[1] Anaïs Ollagnier, Sébastien Fournier, and Patrice Bellot. Analyse en dépendance et classification de requêtes en langue naturelle. Application à la recommandation de livres. Dans : Traitement Automatique des Langues, volume 56(3) (2015).

INTERNATIONAL CONFERENCES   REFEREED CONFERENCE PUBLICATIONS

[2] Anaïs Ollagnier and Hywel Williams, Sequential Transfer Learning for Event Detection and Key Sentence Extraction. In : 2020 19th IEEE International Conference on Machine Learning and Applications (ICMLA), 2020, pp. 1023-1027.

[3] Anaïs Ollagnier and Hywel Williams. Network-Based Pooling for Topic Modeling on Microblog Content. In : Proceedings of the International Symposium on String Processing and Information Retrieval. Springer, Cham, 2019.

[4] Anaïs Ollagnier, Sébastien Fournier, and Patrice Bellot. Measuring the Centrality of the References in Scientific Papers. In : Proceedings of The 18th ACM Symposium on Document Engineering (DocEng 2018). 2018.

[5] Anaïs Ollagnier, Sébastien Fournier, and Patrice Bellot. BIBLME RecSys : Harnessing Bibliometric Measures for a Scholarly Paper Recommender System. In : Proceedings of the 7th International Workshop on Bibliometric-enhanced Information Retrieval (BIR 2018). 2018. p. 34-45.

[6] Anaïs Ollagnier, Sébastien Fournier, and Patrice Bellot. A supervised Approach for detecting allusive bibliographical references in scholarly publications. In : Proceedings of the 6th International Conference on Web Intelligence, Mining and Semantics (WIMS). ACM Digital Library, 2016. p. 36-39.

[7] Chahinez Benkoussas, Patrice Bellot, and Anaïs Ollagnier. The Impact of Linked Documents and Graph Analysis on Information Retrieval Methods for Book Recommendation. In : Web Intelligence and Intelligent Agent Technology (WI-IAT), 2015 IEEE/WIC/ACM International Conference on. IEEE, 2015. p. 385-392.

CONFERENCE PUBLICATION OF BENCHMARK RESULTS

[8] Anaïs Ollagnier and Hywel Williams. Text Augmentation Techniques for Clinical Case Classification In : CLEF (Working Notes). 2020

[9] Anaïs Ollagnier and Hywel Williams. Classification and Event Identification Using Word Embedding. In : CLEF (Working Notes). 2019.

[10] Anaïs Ollagnier, Sébastien Fournier, and Patrice Bellot. Linking Task : Identifying Authors and Book Titles in Verbose Queries. In : CLEF (Working Notes). 2016. p. 1064-1067.

[11] Chahinez Benkoussas, Anaïs Ollagnier, and Patrice Bellot. Book Recommendation Using Information Retrieval Methods and Graph Analysis. In : CLEF (Working Notes). 2015, p. 64-71.

[12] Chahinez Benkoussas, Hussam Hamdan, Shereen Albitar, and Anaïs Ollagnier. Collaborative Filtering for Book Recommandation. In : CLEF (Working Notes). 2014. p. 501-509.

[13] Anaïs Ollagnier, Sébastien Fournier, and Patrice Bellot. Cascade de CRFs et SVM pour la détection de références bibliographiques diffuses dans les articles scientifiques. In : COnférence en Recherche d'Information et Applications (CORIA 2016). 2016, p 35-47.

[14] Anaïs Ollagnier, Sébastien Fournier, Patrice Bellot, and Frédéric Béchet. Impact de la nature et de la taille des corpus d'apprentissage sur les performances dans la détection automatique des entités nommées. In : 21e Conférence en Traitement Automatique des Langues Naturelles (TALN 2014). 2014, p. 511-516.

Thesis

[15] Anaïs Ollagnier. Analyse de requêtes en langue naturelle et extraction d'informations bibliographiques pour une recherche de livres orientée contenu efficace. Thèse de doctorat, Université Aix-Marseille, novembre 2017.

Submitted papers

Anaïs Ollagnier, Elena Cabrio and Serena Villata. Multi-view Clustering for Hate Classes and Target Community Detection on Social Media. the 2021 Conference on Empirical Methods in Natural Language Processing. 2021

Anaïs Ollagnier and Adan Jose-Garcia. Mapping the Labour Market Landscape using Multi-view Clustering. 17th International Conference on Advanced Data Mining and Applications. 2021

Adan Jose-Garcia, Alison Sneyd, Ana Melro, Anaïs Ollagnier, Georgina Tarling, Haiyang Zhang, Mark Stevenson, Richard Everson, Rudy Arthur. C3-IoC career exploration tool : mapping the technical and non-technical skills landscape of the emerging IT sector. Journal of Career Assessment. 2020

❝ Referees

Elena Cabrio
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Sébastien Fournier
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