Ygor Gallina

Temporary Lecturer and Research Assistant in Natural Language Processing

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Education/Academic positions

- Sep. 2022 **Temporary Lecturer and Research Assistant**, LS2N TALN team, Nantes Université.
- Aug. 2024 My research interests are geared towards abusive language detection, gender bias mitigation in language models, which resulted in supervising 2 students. I also worked with colleagues on domain adaptation of language models which resulted in a publication in the french national NLP conference.
 - Oct. 2018 PhD in Computer Science, LS2N, Nantes Université.
- Mar. 2022 TITLE: End-to-end indexation in digital scientific libraries.
 ADVISOR: Pr. Béatrice DAILLE and Associate. Pr. Florian BOUDIN.
- 2016 2018 Master's degree in Computer Science, Nantes Université.
 - Majoring in Natural Language Processing and Machine Learning.
- 2013 2016 Bachelor's degree in Computer Science, Aix-Marseille Université.

Work Experience

- Aug. 2020 Visiting PhD Student, National Informatics Institute, Tokyo (Japan).
- Nov. 2020 Visiting PhD student in the under the supervision of Pr. Akiko AIZAWA.
 - Feb. 2018 Master's internship, Eminove, Nantes, France.
- Jul. 2018 REPORT TITLE: Skill detection from job description.

ADVISOR: Clément TEK (Eminove) and Solen QUINIOU (LS2N).

My work at Eminove was about applying NLP to the Human Resources data of a large french retail company. The goal was to extract, cluster, and normalize skills from job descriptions from different HR departments. I also generated synthesis of employee's annual assessment for HR departments.

- May 2017 Volontary master's internship, LS2N, Nantes.
- Jul. 2017 REPORT TITLE: Pre-processing for electronic conversation: a state-of-the-art.
 ADVISOR: Nicolas HERNANDEZ (LS2N).

Supervision

- Apr. Jun. French inclusive language detection, Samba FALL
 - 2024 Internship (BsC 3), 3 months
- May. Jun. Morphological segmentation for the french language, Rémi ILANGO and Nicolas GOUGET
 - 2024 Internship (MsC 1), 2 months
- Feb. May. Morphological segmentation for the french language, Rémi ILANGO and Nicolas GOUGET
 - 2024 Intro. to research (MsC 1) 1d/week, 4 months
- Sep. Dec. Rhetorical role labelling for legal documents (LegalEval 2023)
 - 2023 NLP Project course (MsC 2), 2 months

- May Jul Graph visualisation of collection of documents leveraging keywords, Samba FALL
 - 2023 Internship (BsC 2), 3 month
- Feb. May. Sexist tweet classification using context, Laure D'ABRIGEON and Alix DELAGE
 - 2023 Intro. to research (MsC 1) 1d/week, 4 months
- Sep. Dec. Offensive tweet classification (OffensEval 2019)
 - 2022 NLP Project course (MsC 2), 2 months

Professional service

Paper Reviewing

- 2024 LREC-COLING, KES
- 2023 AACL
- 2022 LREC
- 2020 ACL, EMNLP, COLING
- 2019 ACL, EMNLP

Event organization

- Nov. 2023 Alumni day for Nantes' NLP MsC: I was the main organizer (1 year preparation)
- Sep. 2023 CNRS Seminar: Language models for specialized domain: In charge of visioconference

Open source project

2019 – Maintainer of boudinfl/pke (1,5K stars)

Python Keyphrase Extraction aims at implementing keyphrase extraction methods focusing on reproducibility and experimental parameters control

Teaching Nantes Université (638h total)

- 2023 2024 MSC: Natural Language Processing (40h), Artificial Intelligence Project (17h)
 - BSC: Intro. to programming (160h), Algorithmic (28h), Operating Systems (16h), Object Oriented Programming (12h)
- 2022 2023 MSC: Natural Language Processing (15h)
 - BSC: Intro. to programming (117h), Algorithmic (59h), Operating Systems (28h), Maths for computer science (18h), Object Oriented Programming (12h)
- 2021 2022 MSC: Natural Language Processing(9h)
 - BSC: Intro. to programming (32h)
- 2020 2021 MSC: Natural Language Processing (9h)
- 2018 2019 BSC: Algorithmic (12h), Intro. to programming (63h)

Publications

In the NLP field, it is more common to publish in conferences than journals. The most impacting conferences are ACL and EMNLP (ranked respectively A^* and rang A from CORE).

Current Work

[1] Anas Belfathi, **Ygor, Gallina**, Nicolas Hernandez, Richard Dufour, and Laura Monceaux, Language Model Adaptation to Specialized Domains through Selective Masking based on Genre and Topical Characteristics. arXiv:2402.12036 [cs], **Accepted to JEP-TALN**. 2024.

International Conference

- [2] Florian Boudin and **Ygor, Gallina**, Redefining Absent Keyphrases and their Effect on Retrieval Effectiveness. *North American Chapter of the Association for Computational Linguistics (NAACL)*. 2021.
- [3] Florian Boudin, **Ygor**, **Gallina**, and Akiko Aizawa, Keyphrase Generation for Scientific Document Retrieval. *Annual Meeting of the Association for Computational Linguistics (ACL)*. 2020.
- [4] **Ygor, Gallina**, Florian Boudin, and Beatrice Daille, KPTimes: A Large-Scale Dataset for Keyphrase Generation on News Documents. *International Conference on Natural Language Generation (INLG)*. 2019.

French National Conference

- [5] Mérième Bouhandi, Florian Boudin, and **Ygor, Gallina**, Autoencoders, gradient boosting and ensemble systems for automatic keyphrase assignment: The LS2N team participation's in the 2019 edition of DeFT. *Défi Fouille de Textes (DEFT)*. 2019.
- [6] **Ygor, Gallina**, State of the art of deep learning methods for automatic keyphrase extraction. *Traitement Automatique des Langues Naturelles (TALN) RECITAL*. 2019.

PhD

[7] **Ygor, Gallina**, *Indexation de bout-en-bout dans les bibliothèques numériques scientifiques*. Theses, Nantes Université. 2022.

Languages

French Mother tongue

English TOEIC 2018: 965/990

Italian A1 Level

Arabic Notions of Modern Standard Arabic

Computer skills

Languages Python, Bash, Javascript, OCaml, C, Java, VBA

Machine HuggingFace, OpenNMT, pyTorch, AllenNLP

Learning

Reference

Florian BOUDIN, LS2N, Nantes Université, florian.boudin@univ-nantes.fr

Beatrice DAILLE, LS2N, Nantes Université, beatrice.daille@univ-nantes.fr

Personal

Email ygor.gallina@gmail.com

Birth 22/09/1995 in Bagnols-sur-cèze (Gard), France

Citizenship French

Residence 35b blvd Amiral Courbet

44000 Nantes, France

Hobbies traditional dances, fiber crafts (bobbin lace, knitting, embroidery)

Associations Treasurer of an association organizing events regarding traditional dances and feminism.