

# Aïssatou Diallo

## Curriculum Vitae

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### Education

- 2022 - **Postdoctoral Researcher, Computer Science**, *UCL*, London, United Kingdom, PI: *Prof. Anthony Hunter*.
- 2018 - 2021 **Doctoral Researcher, Knowledge Engineering**, *TU Darmstadt*, Darmstadt, Germany, Advisor: *Prof. Johannes Fürnkranz*.  
Thesis: Preference-based Representation Learning for Collections
- 2015 - 2017 **MSc in Engineering**, *CentraleSupélec*, Saclay, France, Computer Science, Mathematics.
- 2013 - 2015 **MSc in Engineering**, *Arts et Métiers*, Paris, France.
- 2011 - 2013 **BSc in Biomedical Engineering**, *Politecnico di Milano*, Milan, Italy.

### Experience

- Apr 2017 - Oct. 2017 **Machine Learning Engineer**, *Crédit Agricole SA*, Paris, France, Automatic classification of vulnerabilities using natural language processing tools. Automatic generation of summaries of audit reports..
- Jun 2016 - Sep 2016 **Software Developer**, *Datawords*, Paris, France, Programming project management plugins for the JIRA platform..
- Jun 2015 - Sep 2015 **Assistant Engineer**, *Ambra Core*, Milan, Italy, Resistance calculation of metal structures on restoration sites and archaeological sites..

### Publications and Preprints

- A. Diallo, J. Fürnkranz, "Unsupervised Alignment of Distributional Word Embeddings" arXiv:2203.04863
- A. Diallo, J. Fürnkranz, "GausSetExpander: A Simple Approach for Entity Set Expansion" arXiv:2202.13649
- A. Diallo, J. Fürnkranz, "Ordinal Embeddings for sets" in Entropy (2021)
- A. Diallo, J. Fürnkranz, "Elliptical Ordinal Embedding" in DS (2021)
- A. Diallo, M. Zopf, J. Fürnkranz, "Permutation Learning via Lehmer Codes" ECAI 2020
- A. Diallo, M. Zopf, J. Fürnkranz, "Learning Analogy-Preserving Sentence Embeddings for Answer Selection" CoNLL 2019

### Programming skills

- Advanced Python (numpy, scikit-learn, Pytorch, ...)
- Discrete Java, Matlab, C
- Notions C++, SQL

### Languages

- Bilingual French, Italian, English
- Discrete Spanish
- Basics German