Nedjma Djouhra Ousidhoum

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Research Statement

I am a final year PhD student at the Department of Computer Science and Engineering of the Hong Kong University of Science and Technology (HKUST) working on multilingual hate speech detection under the supervision of Prof. Yangqiu Song and Prof. Dit-Yan Yang.
I am interested is NLP in general, text classification, fairness and explainability. I also worked on machine translation and syntactic parsing.

Education

Fall 2014-Spring 2021 (Expected) PhD student at the Hong Kong University of Science and Technology (HKUST).

2010-2012 Master's in Software Engineering at the University of Science and Technology Houari Boumedienne, Algiers, Algeria.

2007-2010 Bachelor of Science in Computer Science at University of Science and Technology Houari Boumedienne, Algiers, Algeria.

Academic Experience

Spring 2018 Teaching Assistant of IT Entrepreneurship at HKUST.

Spring 2017 Teaching Assistant of Introduction to Natural Language Processing at HKUST.

Spring 2016 Teaching Assistant of Multimedia Computing at HKUST.

Fall 2015 Teaching Assistant of C Programming Bridging Course at HKUST.

Spring 2014 Postgraduate Intern at HKUST.

December 2012-April 2014 Research Assistant [1] at the University of Science and Technology Houari Boumedienne, Algiers, Algeria.

Grants and Awards

2019-2020 The Hong Kong University of Science and technology Scholarship.

August 2019 Student volunteer grant for IJCAI2019.

2018-2019 The Hong University of Science and Technology Scholarship.

2017-2018 The Hong University of Science and Technology Scholarship.

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[1]I co-supervised three final year projects.

2016-2017 The Hong University of Science and Technology Scholarship.

2015-2016 The Hong University of Science and Technology Scholarship.

2014-2015 The Hong University of Science and Technology Scholarship.

2012 Ranked 12th over 130 participants in the PhD Program entrance exam of the University of Science and Technology Houari Boumedienne, Algiers, Algeria.

Skills

Languages

> **Arabic** mother tongue.
> **French** fluent (bilingual).
> **English** fluent.
> **Programming languages** Python (Sklearn, Gensim), C, C++, Java, JavaScript, HTML, Bash.

Courses

> Advanced Algorithms.
> Theory of Computation.
> Human Computer Interaction.
> Computer Networks.
> Knowledge Discovery in Databases.
> Machine Learning.
> Databases.
> Combinatorial Optimization.
> Probability Theory and Bayesian Networks.
> IT Entrepreneurship.

Other

> Latex, Unix.

Extra-curricular Activities

August 2019-present AIhub[a] student ambassador.

October 2018 Volunteer and Emcee at The Rising Stars Women in Engineering Workshop of the Asian Deans' Forum 2018.

April 2015-present English teaching assistant volunteer at Po Leung Kuk Center for disadvantaged children.

2015-2019 Hall Tutor at HKUST UG Hall IV.

Publications

Nedjma Ousidhoum, Yangqiu Song, Dit-Yan Yeung, "Comparative Evaluation of Label-Agnostic Selection in Multilingual Hate Speech Datasets" in Proceedings of the *2020 Conference on Empirical Methods in Natural Language Processing (EMNLP2020)*. November 2020, Online.

Nedjma Ousidhoum, Zizheng Lin, Hongming Zhang, Yangqiu Song, Dit-Yan Yeung, "Multilingual and Multi-Aspect Hate Speech Analysis" in Proceedings of *2019 Conference on Empirical Methods in Natural Language Processing (EMNLP2019)*. November 2019, Hong Kong, China. `https://www.aclweb.org/anthology/D19-1474/`

Nedjma Djouhra Ousidhoum, Nacéra Bensaou, "Towards The Refinement of the Arabic Soundex" in Proceedings of *the 18th International Conference on Application of Natural Language to Information Systems (NLDB2013)* Proceedings. Lecture Notes in Computer Science, Springer. June 2013, University of Salford, MediaCityUK, United Kingdom. `http://link.springer.com/chapter/10.1007%2F978-3-642-38824-8_30`

Nedjma Djouhra Ousidhoum, Asma Bensalah, Nacéra Bensaou, "A New Classical Arabic Soundex Algorithm" in Proceedings of *CIT 2012. The Second Conference on Advances in Communication and Information Technology*. November 2012, Amsterdam, The Netherlands. $http://doi.searchdl.org/03.CSS.2012.3.28$.

Asma Bensalah, Nedjma Djouhra Ousidhoum, "Étude du problème de la correction phonétique : état de l'art et conception d'un algorithme pour la recherche approchée dans un dictionnaire de la langue arabe". *Master's thesis*, Computer Science Department, University of Science and Technology Houari Boumedienne, Algiers, June 2012.

Venon Takaiteyi Mapfunde, Nedjma Djouhra Ousidhoum, "Automatisation de la procédure d'accessibilité dans les réseaux de Petri récursifs". *Bachelor thesis*, Computer Science Department, University of Science and Technology Houari Bomedienne, Algiers, June 2010.

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[a]`https://aihub.org/`