

# 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). I am currently working on multilingual hate speech detection under the supervision of Prof. Yangqiu Song and Prof. Dit-Yan Yeung.  
I am interested in NLP in general, text classification, fairness and explainability.

## Education

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

**2010-2012** Master of Science 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 <sup>1</sup> 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 Kong University of Science and Technology Scholarship.

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

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<sup>1</sup>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** Accepted at the Computer Science PhD Program of the University of Science and Technology Houari Boumedienne, Algiers, Algeria.

## 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/10.1007/978-3-642-38824-8\\_30](http://link.springer.com/chapter/10.1007/978-3-642-38824-8_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.

## Skills

### Languages

**Arabic** mother tongue.

**French** fluent (bilingual).

**English** fluent.

**Programming languages** Python (Sklarn, Gensim, DyNet), C, C++, Java.

## *Courses*

Advanced Algorithms.  
Theory of Computation.  
Human Computer Interaction.  
Computer Networks.  
Knowledge Discovery in Databases.  
Machine Learning.  
Databases.  
Probability Theory and Bayesian Networks.

## *Other*

Latex, Unix, HTML.

## Extra-curricular Activities

**August 2019-present** Alhub<sup>a</sup> 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.

## References

Prof. Yangqiu Song (PhD supervisor).

Prof. Dit-Yan Yeung (PhD co-supervisor).

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<sup>a</sup><https://aihub.org/>