Hadeel Al-Negheimish

Computing Department   halnegheimish@imperial.ac.uk
Imperial College London   `https://www.doc.ic.ac.uk/~ha3313`

Education

Imperial College London
Ph.D., Computing Research   *2018 - 2023*
Thesis: *'Towards Numerical Reasoning in Machine Reading Comprehension'*
supervised by *Dr. Pranava Madhyastha* and *Prof. Alessandra Russo*

Imperial College London
M.Sc., Computing (Artificial Intelligence), *Distinction*   *2014 - 2015*
Thesis: *'Towards an Inductive Logic Programming Approach with Hidden Bias'* supervised by *Prof. Alessandra Russo*

King Saud University
B.Sc., Information Technology, *First Class Honor*   *2009 - 2013*
Thesis: *'ABC: An Arabic Augmentative and Alternative Communication Brain-Computer Interface Application'*

Employment

Deepmind
Research Scientist Intern   *June - Nov, 2022*

Imperial College London
Graduate Teaching Assistant   *2018 - 2023*

Computer Science Department, King Saud University
Teaching Assistant   *2013 - 2018*
Admin:
Head of Innovations Unit, Nov, 2016 - May, 2018
Member of CS Capstone Project Committee, Mar, 2015 - Jan, 2018
Head of Social and Cultural Activities Unit, Jan - Jun, 2014

Mozn
Data Scientist   *2017 - 2018*
Helped build solutions to exciting data problems. These included high impact, public policy projects with real, sensitive data on a national scale.

Saudi Genome Project
Researcher   *Jul-Nov, 2013*
Part of the bioinformatics group, one significant project was comparing efficacy of next generation sequencing with previous approaches

Awards		
	KSU Graduate Scholarship	**2018 - 2023**
	MiSK Graduate Fellow	**2018 - 2023**
	WiML Workshop Travel Award	**2019**
	Academic Excellence in Graduate Studies	**2015**
	New Scholar Award	**2015**
	Dean's List of Outstanding Students	**2009-2013**
	Best Paper at KSU's Fourth Student Research Symposium	**2013**
	CCIS Exemplary Student Award	**2013**
	Motah Award for Open Source Software	**2012**

Teaching

King Saud University
Computer Programming I, Fall 2016
Computer Programming II, Spring 2014, 2016, 2017
Discrete Mathematics for Computer Science, Fall 2016, 2017, Spring 2018
Design and Analysis of Algorithms, Spring 2016, Fall 2017
Artificial Intelligence, Fall 2016, Spring 2017, 2018

Imperial College
Logic, Fall 2018, 2019, 2020, 2021
Logic-based Learning, Spring 2019
Data Structures and Algorithms, Fall 2019, 2020, 2021

Publications

Al-Negheimish, H., Madhyastha, P. and Russo, A., 2023. Augmenting Large Language Models with Symbolic Rule Learning for Robust Numerical Reasoning. *to appear in MATH-AI @ NeurIPS 2023.*

Al-Negheimish, H., Madhyastha, P. and Russo, A., 2023. Towards preserving word order information through forced invalidation. *in EACL 2023.*

Al-Negheimish, H., Madhyastha, P. and Russo, A., 2021. Numerical Reasoning in Machine Reading Comprehension Tasks: Are We There Yet? *In EMNLP 2021.*

Al-Negheimish, H., Madhyastha, P. and Russo, A., 2021. Discrete Reasoning Templates for Natural Language Understanding. *In EACL 2021: Student Research Workshop.*

Al-Twairesh, N. and **Al-Negheimish, H.**, 2019. Surface and Deep Features Ensemble for Sentiment Analysis of Arabic Tweets. IEEE Access. 10.1109/ACCESS.2019.2924314.

AlNegheimish, H., Alshobaili, J., AlMansour, N., Shiha, R.B., AlTwairesh, N. and Alhumoud, S., 2017, July. AraSenTi-Lexicon: A Different Approach. *In International Conference on Social Computing and Social Media* (pp. 226-235). Springer, Cham.

AlNegheimish, H. and Russo, A., 2016, September. Reduction of ILP Search Space with Bottom-Up Propositionalisation. *In International Conference on Inductive Logic Programming (Short papers)* (pp. 1-7). CEUR-WS.org.

Al-Rubaian, A., Alssum, L., Alharbi, R., Alrajhi, W., Aldayel, H., Alangari, N., **Al-Negheimish, H.**, Alfayez, A., Alwaalan, S., Aljindan, R. and Al-shathri, A., 2014, June. The Design and Development of Empathetic Serious Games for Dyslexia: BCI Arabic Phonological Processing Training Systems. *In International Conference of Design, User Experience, and Usability* (pp. 105-112). Springer, Cham.

Al-Negheimish, H., Al-Andas, L., Al-Mofeez, L., Al-Abdullatif, A., Al-Khalifa, N. and Al-Wabil, A., 2013, July. Brainwave typing: Comparative study of P300 and motor imagery for typing using dry-electrode EEG devices. *In International Conference on Human-Computer Interaction* (pp. 569-573). Springer, Berlin, Heidelberg.

Al-Abdullatif, A., **Al-Negheimish, H.**, Al-Mofeez, L., Al-Khalifa, N., Al-Andas, L. and Al-Wabil, A., 2013, March. Mind-controlled augmentative and alternative communication for people with severe motor disabilities. *In International Conference on Innovations in Information Technology* (pp. 107-112). IEEE.

Community Engagement	Reviewer for ACL, IJCLR – 2022 - *Present*
	Organizer for Muslims in ML Workshop at NeurIPS – Dec, 2023
	Student volunteer at ICLP 2023 – July 2023
	Student volunteer at NeurIPS 2019 – Dec, 2019
	Student volunteer at WiML 2019 – Dec, 2019
	Student volunteer at RE-WORK's Deep Learning Summit – Sep, 2019
	Mentor at Women in Data Science Event, PSU – Dec, 2017
	Computing Ambassador at Engineering Summer School for Girls, Imperial College London – Jul, 2015
	Volunteered to teach at Google's CS4HS workshop, KSU – Jun, 2012
	Founded and led the First Annual IT Project Fair, KSU – May, 2012
Professional Development	Advanced Language Processing Winter School (ALPS) 2021
	Deep Learning and Reinforcement Learning Summer School 2018, CIFAR
	Deep Learning Specialization, deeplearning.ai, Coursera
	Data Analyst Nanodegree Program, Udacity
	Youth Leadership Program, IMD Business School
Languages	Arabic (native)
	English (native)