RALPH ABBOUD CV

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N Lebanese | New Zealander

Work Experience

Al Developer and Researcher (Part-time). The Learning Agency Lab Developing and evaluating language models, proposing a technical framework for automated writing feedback using natural language processing techniques.	2021 - Present
Tutor for Visiting Students. Graph Machine Learning. Hertford College, Oxford	2022
Course Co-examiner. Advanced Topics in Machine Learning. University of Oxford	2022
Practical Demonstrator. Advanced Topics in Machine Learning. University of Oxford	2021 - 2022
Class Tutor. Probability and Computing. University of Oxford	2019
Education	
DPhil in Computer Science. University of Oxford, United Kingdom. Thesis: "Learning and Inference over Relational Data". Supervised by Dr. İsmail İlkan Ceylan and Prof. Thomas Lukasiewicz	2018 - 2022
MSc in Computer Science. University of Oxford, United Kingdom Dissertation Title: "Deep Learning for Program Synthesis". Coursework Grade: 81.17 / 100, Dissertation Grade: 85 / 100, Distinction	2017 - 2018
B.E. in Computer Engineering. Lebanese American University (LAU), Lebanon GPA: 3.99 / 4.00, High Distinction. Minor in Mathematics.	2013 - 2017
Awards and Honors	
Highlighted Reviewer (Top 10%). ICML 2022	2022
G-Research PhD Prize in Maths and Data Science (First Place). G-Research	2022
Outstanding Reviewer (Top 9%). ICLR 2022	2022
Global Talent Visa (Exceptional Talent Route). <i>UK Home Office, Tech Nation</i> For demonstrated talent and innovative research in Artificial Intelligence.	2022
Best Student Paper Runner-up Award. KR 2020	2020
Departmental Teaching Award. Oxford Department of Computer Science For exceptional teaching standards in the "Probability and Computing" course.	2019
Jesus College Graduate Scholarship. Jesus College, Oxford	2019 - 2022
Hult Prize London Regional Final Winner. Hult Prize Foundation	2019
Alun Hughes Graduate Scholarship. Jesus College, Oxford	2018 - 2021
Oxford - DeepMind Graduate Scholarship. University of Oxford and DeepMind	2018 - 2021
President's Award and Computer Engineering Award (First Place). LAU	2017
Best Engineering Capstone Project Poster Award. LAU	2017
Merit Scholarship. LAU	2013 - 2017
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Skills

Programming. Python (TensorFlow, PyTorch, PyTorch Geometric), Java, JavaScript (D3.js) Experience with developing Graph Neural Network (GNN) models and visualizations.

Languages. Fluent in English, Arabic, and French

Music. Baccalaureate Diploma in Piano Performance, Distinction "Very Good" Obtained from the Lebanese National Higher Conservatory of Music (LNHCM) in June 2017.

Publications

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R. Abboud , İ. İ. Ceylan and R. Dimitrov. Approximate Weighted Model Integration on DNF Structures	AIJ, 2022
J. Messner, R. Abboud and İ. İ. Ceylan. Temporal Knowledge Graph Completion Using Box Embeddings.	AAAI 2022
R. Abboud , İ. İ. Ceylan, M.Grohe and T.Lukasiewicz. The Surprising Power of Graph Neural Networks with Random Node Initialization	IJCAI 2021
R. Abboud , İ. İ. Ceylan, T. Lukasiewicz and T. Salvatori. BoxE: A Box Embedding Model for Knowledge Base Completion	NeurIPS 2020 (Spotlight Paper)
R. Abboud , İ. İ. Ceylan and R. Dimitrov. On the Approximability of Weighted Model Integration on DNF Structures	KR 2020
R. Abboud , İ. İ. Ceylan and T. Lukasiewicz. Learning to Reason: Leveraging Neural Networks for Approximate DNF Counting	AAAI 2020
R. Abboud and J. Tekli. Integration of nonparametric fuzzy classification with an evolutionary developmental framework to perform music sentiment-based analysis and composition	Soft Computing, 2020
R. Abboud and J. Tekli. MUSE Prototype for Music Sentiment Expression	IEEE ICCC 2018
Preprints	
R. Abboud , R. Dimitrov, and İ. İ. Ceylan. Shortest Path Networks for Graph Property Prediction	2022
R. Abboud and İ. İ. Ceylan. Node Classification Meets Link Prediction on Knowledge Graphs.	2021
Supervision Experience	
Co-supervisor. Johannes Messner. <i>MSc in Computer Science, University of Oxfo</i> Dissertation awarded a distinction, and work published at AAAI 2022.	rd 2021
Selected Talks	
Applying Box Embeddings to Knowledge Bases. University of California, Los	s Angeles, USA. 2021
Al For Reasoning. Bletchley Park Week. Kellogg College, Oxford	2019
Programs Creating Other Programs: Intro to Program Synthesis. LAU	2018
Extracurricular Activities	
Project Leader. DeepSaber. Oxford Artificial Intelligence Society (OxAI) Labs Automated level generator for the BeatSaber VR game. The project received an 11,5 USD computational resource grant from Google Research Credits (a first for OxAI).	2018 - 2019 500
Student Representative. Oxford Department of Computer Science.	2017 - Present
Founding Vice-President of the LAU Artificial Intelligence (AI) Club. LAU	2016 - 2017
Professional Activities	

Program Committee member for IJCAI (2021, 2022), AAAI (2021, 2022, 2023), NeurIPS (2021, 2022), ICLR (2022, 2023), ICML (2022), LoG (2022) and TMLR (2022 - Present).