RALPH ABBOUD CV

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N Lebanese | New Zealander

Work Experience

Work Experience	
Science Associate, Learning Engineering (Full-time). Schmidt Futures Providing technical and strategic advice in Al, developing research models.	2023 - Present
Al Advisor (Part-time). The Learning Agency Lab Advising on technical competition design and implementation.	2023 - Present
Al Developer (Part-time). The Learning Agency Lab Developing and evaluating language models for automated writing feedback.	2021 - 2023
Visiting Scientist (Part-time), LabGPT project. Francis Crick Institute	2023
Al Advisor (Part-time). Schmidt Futures (Learning Engineering)	2022 - 2023
Teaching Experience	
Tutor, Graph Representation Learning. Stanford House and Hertford College, Oxford	2022
Practical Demonstrator, Advanced Topics in Machine Learning. University of Oxford	2021 - 2022
Tutor, Probability and Computing. University of Oxford	2019
Education	
DPhil in Computer Science. University of Oxford. Supervisors: Dr. İsmail İlkan Ceylan and Prof. Thomas Lukasiewicz	2018 - 2022
MSc in Computer Science. <i>University of Oxford</i> Coursework Grade: 81.17 / 100, Dissertation Grade: 85 / 100, Distinction.	2017 - 2018
B.E. in Computer Engineering. Lebanese American University (LAU) GPA: 3.99 / 4.00, High Distinction. Minor in Mathematics.	2013 - 2017
Awards and Honors	
Highlighted Reviewer at ICML (Top 10%) and ICLR (Top 9%).	2022
G-Research PhD Prize (First Place) in Maths and Data Science. G-Research	2022
Global Talent Visa (Exceptional Talent). UK Home Office, Tech Nation.	2022
Best Student Paper Runner-up Award. KR 2020	2020
Departmental Teaching Award. Department of Computer Science, Oxford	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

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.

Selected Publications

Serected Fubilitations	
R. Abboud, R. Dimitrov, and İ. İ. Ceylan. Shortest Path Networks for Graph Property Prediction	LoG 2022 (Spotlight Paper)
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	NeurlPS 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
Selected Talks	
Applying Box Embeddings to Knowledge Bases. University of California, Los A	Angeles. 2021
Al For Reasoning. Kellogg College, Oxford	2019
Programs Creating Other Programs: Intro to Program Synthesis. LAU	2018
Additional Activities	
Project Leader. DeepSaber. Oxford Artificial Intelligence Society (OxAI) Automatic Al level generator for the BeatSaber Virtual Reality (VR) game.	2018 - 2019
Student Representative. Department of Computer Science, Oxford.	2017 - 2022
Professional Service	

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