Experience

Program Scientist. Learning Engineering Virtual Institute (LEVI) Supporting LEVI's technical operations and providing strategic and technical guidance to program grantees on machine learning / artificial intelligence solution development.	2024 - Present
Al Advisor (Part-time). The Learning Agency	2023 - Present
Advising on technical competition design, metrics, datasets, and implementation.	2022 2024
Science Associate, Learning Engineering. Schmidt Futures Supported LEVI while it was part of the Schmidt Futures Learning Engineering program.	2023 - 2024
Al Developer (Part-time). The Learning Agency Lab	2021 - 2023
Developed and evaluated large language models (LLM) for automated writing feedback.	
Visiting Scientist (Part-time), LabGPT project. Francis Crick Institute Worked on biochemistry protocol generation and evaluation with large language models (LLMs), leading to the BioPlanner paper published at EMNLP 2023.	2023
Al Advisor (Part-time). Schmidt Futures	2022 - 2023
Supported grantees with the development of machine learning models (LLMs, GNNs).	
Education	
DPhil in Computer Science. University of Oxford. Thesis Title: Learning and Inference over Relational Data Supervisors: Dr. İsmail İlkan Ceylan and Prof. Thomas Lukasiewicz	2018 - 2022
MSc in Computer Science. University of Oxford 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	
Top Reviewer Awards at LoG 2023, NeurIPS 2023, ICML 2022 and ICLR 2022.	2022-2023
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 for Weighted model integration paper. KR 2020	2020
Jesus College Graduate Scholarship. Jesus College, Oxford	2019 - 2022
Alun Hughes Graduate Scholarship. Jesus College, Oxford	2018 - 2021
Oxford – DeepMind Graduate Scholarship. University of Oxford and DeepMind	2018 - 2021
President's Award, Computer Engineering Award, and Best Capstone Project. LAU	2017
Merit Scholarship. LAU	2013 – 2017
CL:II	

Skills

Machine Learning. PyTorch, TensorFlow, PyG, DGL, OGB, HuggingFace, OpenAl API, Gensim.

Programming. Python, Java, JavaScript (D3.js, Google Apps Scripts)

Languages. Fluent in English, Arabic and French. Intermediate in Italian.

Music. Baccalaureate in Piano Performance (2017) from the Lebanese National Conservatory

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Science i aplications	
BioPlanner: Automatic Evaluation of LLMs on Protocol Planning in Biology O. O'Donoghue, A. Shtedritski, J. Ginger, R. Abboud, A. Ghareeb, J. Booth, and S. Rodriques	EMNLP 2023
PlanE: Representation Learning over Planar Graphs R. Dimitrov, Z. Zhao, <i>R. Abboud</i> , and İ. İ. Ceylan	NeurIPS 2023
Shortest Path Networks for Graph Property Prediction R. Abboud, R. Dimitrov, and İ. İ. Ceylan	LoG 2022 (Spotlight)
Approximate Weighted Model Integration on DNF Structures R. Abboud, İ. İ. Ceylan, and R. Dimitrov	AIJ, 2022
Temporal Knowledge Graph Completion Using Box Embeddings J. Messner, <i>R. Abboud</i> , and İ. İ. Ceylan	AAAI 2022
The Surprising Power of Graph Neural Networks with Random Node Initialization R. Abboud, İ. İ. Ceylan, M. Grohe, and T. Lukasiewicz	IJCAI 2021
BoxE: A Box Embedding Model for Knowledge Base Completion R. Abboud, İ. İ. Ceylan, T. Lukasiewicz, and T. Salvatori	NeurIPS 2020 (Spotlight)
On the Approximability of Weighted Model Integration on DNF Structures R. Abboud, İ. İ. Ceylan, and R. Dimitrov	KR 2020
Learning to Reason: Leveraging Neural Networks for Approximate DNF Counting R. Abboud, İ. İ. Ceylan, and T. Lukasiewicz	AAAI 2020
Professional Service Program Committee member at IJCAI (2021- Present), AAAI (2021 - Present), NeurIPS (ICLR (2022 - Present), ICML (2022 - Present), LoG (2022 - Present), COLM (2024 - Present) (2022).	•
Teaching	
Tutor, Graph Representation Learning. Stanford House, Hertford College, Oxford Practical Demonstrator, Advanced Topics in Machine Learning. University of Oxford Tutor, Probability and Computing. University of Oxford Received a department teaching award for my performance in this role.	2022 2021 - 2022 2019
Selected Talks	
Applying Box Embeddings to Knowledge Bases. University of California, Los Angeles. Al For Reasoning. Kellogg College, Oxford	2021 2019
Programs Creating Other Programs: Intro to Program Synthesis. LAU	2018
Programs Creating Other Programs: Intro to Program Synthesis. LAU Additional Activities	