

Work Experience

Program Scientist. <i>Renaissance Philanthropy</i>	2025 - Present
Providing technical leadership for the AI for Math (AI For Math Fund) and AI for Education programs (Tutoring Arena, Learning Engineering Virtual Institute).	
Program Scientist. <i>Learning Engineering Virtual Institute (LEVI)</i>	2024 - 2025
Supported LEVI operations and provided strategic and technical guidance to grantees. This role has been migrated into my current responsibilities at Renaissance Philanthropy.	
Science Associate, Learning Engineering. <i>Schmidt Futures</i>	2023 - 2024
Primarily worked on LEVI while it was initially housed at Schmidt Futures.	

Advisory Roles

Jackfruit Finance	2025
Developed classical machine learning solutions to support credit decision making.	
LAPIS	2025
Trained in-house engineering team and supported their development of the Lalah tutoring chatbot in Afghanistan.	
The Learning Agency	2021 - 2024
Evaluated models for the Feedback Prize competition series. Supported the design process for private competitions, including metrics, data splits, and implementation decisions.	
LabGPT, Francis Crick Institute	2023
Worked on biochemistry protocol generation using large language models (LLMs). Work led to BioPlanner (EMNLP 2023).	
Schmidt Futures	2022 - 2023
Supported LEVI grantees with machine learning model development.	

Education

DPhil in Computer Science. <i>University of Oxford.</i>	2018 - 2022
Thesis Title: Learning and Inference over Relational Data.	
MSc in Computer Science. <i>University of Oxford</i>	2017 - 2018
Coursework Grade: 81.17 / 100, Dissertation Grade: 85 / 100, Distinction.	
B.E. in Computer Engineering. <i>Lebanese American University (LAU)</i>	2013 - 2017
GPA: 3.99 / 4.00, High Distinction. Minor in Mathematics.	

Skills

Program Operations. Project Management, Technical Reviewing, Proposal Selection

Machine Learning. PyTorch, TensorFlow, PyG, DGL, OGB, HuggingFace, OpenAI, Gemini APIs.

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

Awards and Honors

Top Reviewer Awards. ICML 2025, LoG 2023, NeurIPS 2023, ICML 2022, ICLR 2022	2022 - 2025
G-Research PhD Prize (First Place) in Maths and Data Science. <i>G-Research</i>	2022
Global Talent Visa (Exceptional Talent). <i>UK Home Office, Tech Nation.</i>	2022
Best Student Paper Runner-up Award for Weighted model integration paper. <i>KR 2020</i>	2020
Jesus College Graduate Scholarship. <i>Jesus College, Oxford</i>	2019 - 2022
Alun Hughes Graduate Scholarship. <i>Jesus College, Oxford</i>	2018 - 2021
Oxford – DeepMind Graduate Scholarship. <i>University of Oxford and DeepMind</i>	2018 - 2021
President’s Award, Computer Engineering Award, and Best Capstone Project. <i>LAU</i>	2017
Merit Scholarship. <i>LAU</i>	2013 - 2017

Selected Publications

Improving Open-Response Assessment with LearnLM D. Thomas, C. Borchers, S. Bhushan, S. Kakarla, A. Houk, <i>R. Abboud</i> , S. Gupta, E. Gatz, K. Koedinger	AIED 2025
BioPlanner: Automatic Evaluation of LLMs on Protocol Planning in Biology O. O’Donoghue, A. Shtedritski, J. Ginger, <i>R. Abboud</i> , A. Ghareeb, J. Booth, and S. Rodrigues	EMNLP 2023
PlanE: Representation Learning over Planar Graphs <i>R. Dimitrov</i> , Z. Zhao, <i>R. Abboud</i> , and İ. İ. Ceylan	NeurIPS 2023
Shortest Path Networks for Graph Property Prediction <i>R. Abboud</i> , <i>R. Dimitrov</i> , and İ. İ. Ceylan	LoG 2022 (Spotlight)
Approximate Weighted Model Integration on DNF Structures <i>R. Abboud</i> , İ. İ. Ceylan, and <i>R. Dimitrov</i>	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 <i>R. Abboud</i> , İ. İ. Ceylan, M. Grohe, and T. Lukasiewicz	IJCAI 2021
BoxE: A Box Embedding Model for Knowledge Base Completion <i>R. Abboud</i> , İ. İ. Ceylan, T. Lukasiewicz, and T. Salvatori	NeurIPS 2020 (Spotlight)
On the Approximability of Weighted Model Integration on DNF Structures <i>R. Abboud</i> , İ. İ. Ceylan, and <i>R. Dimitrov</i>	KR 2020
Learning to Reason: Leveraging Neural Networks for Approximate DNF Counting <i>R. Abboud</i> , İ. İ. Ceylan, and T. Lukasiewicz	AAAI 2020

Professional Service

Program Committee member at IJCAI (2021- Present), AAAI (2021 - Present), NeurIPS (2021 - Present), ICLR (2022 - Present), ICML (2022 - Present), LoG (2022 - Present), COLM (2024 – Present) and TMLR (2022).