

RALPH ABBOUD CV

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N Lebanese | New Zealander

Work Experience

Visiting Scientist (Part-time), LabGPT project. <i>Francis Crick Institute</i>	2023 - Present
AI Advisor (Part-time). <i>Schmidt Futures (Learning Engineering)</i> Providing technical and strategic advice in AI, developing research models.	2022 - Present
AI Developer and Researcher (Part-time). <i>The Learning Agency Lab</i> Developing and evaluating language models for automated writing feedback.	2021 - Present

Teaching Experience

Tutor, Graph Representation Learning. <i>Stanford House, Oxford</i>	2022
Tutor, Graph Machine Learning. <i>Hertford College, Oxford</i>	2022
Co-examiner, Advanced Topics in Machine Learning. <i>University of Oxford</i>	2022
Practical Demonstrator, Advanced Topics in Machine Learning. <i>University of Oxford</i>	2021 - 2022
Tutor, Probability and Computing. <i>University of Oxford</i>	2019

Education

DPhil in Computer Science. <i>University of Oxford.</i> Supervised by 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. <i>Lebanese American University (LAU)</i> 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. <i>G-Research</i>	2022
Global Talent Visa (Exceptional Talent). <i>UK Home Office, Tech Nation</i> For demonstrated talent and innovative research in Artificial Intelligence.	2022
Best Student Paper Runner-up Award. <i>KR 2020</i>	2020
Departmental Teaching Award. <i>Department of Computer Science, Oxford</i>	2019
Jesus College Graduate Scholarship. <i>Jesus College, Oxford</i>	2019 - 2022
Hult Prize London Regional Final Winner. <i>Hult Prize Foundation</i>	2019
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 and Computer Engineering Award (First Place). <i>LAU</i>	2017
Best Engineering Capstone Project Poster Award. <i>LAU</i>	2017
Merit Scholarship. <i>LAU</i>	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

- 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. AAI 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 AAI 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 Angeles.* 2021
- AI 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)* 2018 - 2019
Automatic AI level generator for the BeatSaber Virtual Reality (VR) game.
- Student Representative.** *Department of Computer Science, Oxford.* 2017 - 2022
- Founding Vice-President** of the LAU Artificial Intelligence (AI) Club. *LAU* 2016 - 2017

Professional Service

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