

Rares Dolga

Computer science student with the third-highest mark in the class. PhD candidate Interested in probabilistic machine learning largely focusing on methods for efficient language generation. I am seeking opportunities in machine learning, data science and quantitative research.

Email: rares.dolga@yahoo.com

LinkedIn: uk.linkedin.com/in/rares-dolga

GitHub: github.com/raresdolga

Website: <https://raresdolga.github.io/>

EDUCATION

University College London Foundational AI CDT MPhil/PhD. Candidate	Oct 2023 - Present, London UK
<ul style="list-style-type: none">NLP research for efficient long sequence learning using probabilistic machine learning techniques.	
University College London <i>Bachelors & Master degree in Computer Science</i>	Sep 2016 - Jun 2020, London UK
<ul style="list-style-type: none">Average Degree 87%: Intro to Deep Learning(99%), Graphical Models(93%), Information Retrieval(94%), Statistical NLP (86%), Multi Agent AI(85%), Data Mining(84%)	
National College "Moise Nicoara"	Sep 2012 - Jun 2016, Arad RO
<ul style="list-style-type: none">Romanian Baccalaureate (out of 10): Mathematics 9.95, Computer Science 10	

WORK EXPERIENCE

UIPath AI Scientist Intern	Mar 2024 – Jun 2024, London UK
<ul style="list-style-type: none">Creating efficient models for long sequences, by re-parameterising attention with latent variables.	
J.P. Morgan AI Researcher	Apr 2022 – Sep 2023, London UK
<ul style="list-style-type: none">Leading NLP research in finance, on documents and long text sequences. Financial and operations automation.Paper under review SEIP 2023. SAM: Smart Actionable Monitoring for software applications	
J.P. Morgan Quantitative Developer	Sep 2020 – Apr 2022, London UK
<ul style="list-style-type: none">Data Analytics team, implementing scalable time series databases and quantitative pricing models.Built unified access to real-time and historical pricing data distributed on multiple machines. Provided different views and statistics of the raw dataset. (KDB+/Q, Python)	
J.P. Morgan Technology Summer Analyst	June 2019 - Sep 2019, London UK
<ul style="list-style-type: none">Worked as Java backend developer in the Algorithmic Trading team - software for monitoring apps	
RegulAltion Intern	Jun 2018 - Sep 2018, London UK
<ul style="list-style-type: none">Java backend programmer developing software to support FinTech companies with regulatory registration	

PROJECTS/RESEARCH

[RotRNN: Modelling Long Sequences with Rotations](#)

- Next Generation of Sequence Modeling Architectures Workshop at ICML 2024

[Latent Attention for Linear Time Transformers](#)

- Next Generation of Sequence Modeling Architectures Workshop at ICML 2024

[Machine Executable Contracts with Deep Learning](#)

- 2020 International Conference on Computational Science and Computational Intelligence, Las Vegas.

TEACHING

COMP0080: Graphical Models, University College London	Oct 2023 - Dec 2023, London UK
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TECHNICAL SKILLS AND COMPETENCIES

- Technologies:** Python, Pytorch, Spacy, Q/KDB+, Java, C/C++, Linux, Git, ECDL
- Other Skills:** Adaptable to multicultural environments, Team spirit, Good communication, Leadership
- Languages:** Fluent in English, Native Romanian speaker

INTERESTS AND ACHIEVEMENTS

Awards	2014 - 2020
<ul style="list-style-type: none">"Ambassador's Diploma" award - for the best Romanian Student in the UK during the 2018-2019 academic yearUCL and British Computer Science award - for client consulting and applied software development2nd Place out of 30 people, Computer Science C/C++ Regional Contest-Optimization4th Place out of 40 people, "Traian Lalescu" Intercounty Mathematics Olympiad	
Organisations and Activities	
<ul style="list-style-type: none">Microsoft Student Partner (2017-2019) - Gaining leadership experience by organising hackathons and talks	