

Kamil Bujel

MPHIL STUDENT · COMPUTER SCIENCE

Department of Computer Science and Technology, University of Cambridge
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Education

University of Cambridge, King's College

Cambridge, UK

MASTER OF PHILOSOPHY IN ADVANCED COMPUTER SCIENCE

Sep 2022 - Jun 2023

- Predicted Grade: Distinction (80%)
- Advisors: Dr Challenger Mishra, Prof Pietro Liò
- Thesis: Learning & Breaking Symmetries in Geometric Deep Learning.
- Modules: Theory of Deep Learning, Representation Learning on Graphs and Networks, Advanced Topics in Machine Learning, Machine Learning for Language Processing, Multicore Semantics and Programming.

Imperial College London

London, UK

BACHELOR OF ENGINEERING IN MATHS & COMPUTER SCIENCE

Sep 2019 - Jun 2022

- Grade: First Class Honours (82%)
- Advisor: Dr Marek Rei
- Dissertation: Finding the Needle in a Haystack: Unsupervised Rationale Extraction from Long Text Classifiers (90%)
- Relevant Modules: Introduction to Machine Learning, Methods for Data Science, Computational Linear Algebra, Probability and Statistics, Statistical Modelling, Multivariate Calculus and Differential Equations, Real Analysis, Numerical Analysis.

Experience

Jump Trading

London, UK

SOFTWARE ENGINEERING INTERN

Jul 2022 - Sep 2022

- Core Development team, work on a C++17 codebase.
- Develop a new system processing incoming data from exchanges.

Bloomberg LP

London, UK

SOFTWARE ENGINEERING INTERN

Jun 2021 - Sep 2021

- Work on the Asset & Investment Manager (AIM), a buy-side enterprise portfolio management, trading, compliance & operations offering.
- Improve performance and scalability of a real-time compliance gateway, reducing maximum response delay times from 1-2 minutes to 1-5 seconds and decreasing request queue size by 50% with multithreading.

Imperial College London

London, UK

UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAMME

Jun 2020 - Sep 2020

- Supervisor: Dr Marek Rei
- Topic: Zero-shot Sequence Labeling for Transformer-based Sentence Classifiers. Published at Repl4NLP workshop at ACL 2021.

GOGOX

Hong Kong & Remote

DATA SCIENTIST & DATA ENGINEER

Jul 2017 - May 2021

- Research and develop Route Optimisation tool with clustering methods that allow to optimise routes for up to 5000 waypoints. Head the app integration of the algorithm in Taiwan.
- Lead work on Ops Data Brain – cutting-edge real-time event-driven visualisation platform currently used on a daily basis by Operations teams in 6 countries.
- Design, deploy, transition and manage workflows on the persistent Spark cluster and thus reduce core ETL failure rate from 20% to 5%.

Publications ---

PUBLISHED

Kamil Bujel, Helen Yannakoudakis, Marek Rei. 2021. *Zero-shot Sequence Labeling for Transformer-based Sentence Classifiers*. The 6th Workshop on Representation Learning for NLP (RepL4NLP-2021) at ACL 2021.

IN REVIEW

Kamil Bujel*, Yonatan Gideoni*, Chaitanya Joshi, Petar Veličković, Pietro Liò. 2023. *Group-Invariant Global Pooling*. Synergy of Scientific and Machine Learning Modeling at ICML 2023. To be submitted to ICLR 2024.

Kamil Bujel, Andrew Caines, Helen Yannakoudakis, Marek Rei. 2023. *Finding the Needle in a Haystack: Unsupervised Rationale Extraction from Long Text Classifiers*. EMNLP 2023.

PRE-PRINTS

Kamil Bujel, Feiko Lai, Michal Szczecinski, Winnie So, and Miguel Fernandez. 2017. *Solving high volume capacitated vehicle routing problem with time windows using recursive-DBSCAN clustering algorithm*.

Awards, Fellowships, & Grants ---

- 2022 **Dean's List**, Imperial College London
- Aspect Capital Final Year Undergraduate Project Prize**, Imperial College London
- 2021 **ACL 2021 Attendance Grant**, Imperial College London
- 2020 **UROP Bursary**, Department of Computing, Imperial College London

Presentations ---

November 2022. *Unsupervised Rationale Extraction from Long Text Classifiers*. Invited talk: ALTA Institute. Department of Computer Science and Technology. Cambridge. UK.

Teaching Experience ---

Personal Programming Tutor

IMPERIAL COLLEGE LONDON

Computing Practical 1 - lab demonstration

Sep 2021 - Jun 2022

Undergraduate Teaching Assistant

IMPERIAL COLLEGE LONDON

Computing Practical 1 - weekly programming tutorials and marking for 10 students

Sep 2020 - Jun 2022

Skills ---

Languages: Python, C++, Java, C, SQL, Haskell

Technologies/Frameworks: Linux, Spark, pyTorch, Docker, HuggingFace, Tensorflow, Scikit-Learn, Tensorflow, JAX, NumPy