## Bohui Zhang

Contact Information	bohui.zhang@kcl.ac.uk https://bohuizhang.github.io/		
Research Interests	research interests mainly lie in knowledge graphs, natural language processing, and lainable AI, especially on automatic and explainable knowledge graph construction natural language processing in knowledge graph construction, especially the usage prompt engineering and large language models. I am open to new topics.		
Academic Background	King's College London (KCL)2022Ph.D. in Computer ScienceSupervisors: Prof. Elena Simperl, Dr. Albert Meroño Peñuela	- 2026	
	University of Southern California (USC)2020M.S. in Applied Data Science2020	- 2021	
	University of Waterloo (UWaterloo)2015B.S. in Materials and Nanosciences, Dean's Honours List	- 2019	
	Beijing Jiaotong University (BJTU)2015B.Eng. in Nanomaterials and Nanotechnology2015	- 2019	
Work Experience	Information Sciences Institute, Student Researcher09/2021 - 12• Supervisor: Dr. Filip Ilievski	2/2021	
	• Investigated the feasibility of enriching Wikidata with structured data so from the linked open data (LOD) cloud.	ources	
	• Proposed a method that consists of several steps: gap detection, external graph selection, schema alignment, knowledge retrieval, and validation, implemented the procedure using the Knowledge Graph Toolkit (KGTK).		
	• Evaluated the method on enriching Wikidata with two LOD sources: DBpedia and Getty Vocabularies. The experiments showed that the LOD-based method can enrich Wikidata with millions of new high-quality statements in a short time.		
	Alibaba Cloud, Machine Learning Intern05/2021 - 08• Mentor: Jingjun (Alvin) Chu	3/2021	
	• Worked on a Neural Architecture Search (NAS) system for optimizing models in search space defined by ProxylessNAS, used on image classification and feature extraction tasks based on dataset collecting from group's retail sector.		
	• Improved the model training process using knowledge distillation and improved the optimal model architecture searching process in various hardware environ- ments using policy gradient algorithm based on target accuracy, FLOPs and latency.		
	• The optimal models deployed on terminal machines achieved model compr for more than 60% decrease on FLOPs while improving rank1 and rank6 pared with state-of-the-art MobileNetV2 models and keeping the top1 acc above 98%.	ession com- curacy	

Publications [8]	3. Bohui Zhang, Ioannis Reklos, Nitisha Jain, Albert Meroño Peñuela, Elena Sim Using Large Language Models for Knowledge Engineering (LLMKE): A Case S on Wikidata, In Knowledge Base Construction from Pre-trained Language Me Workshop at International Semantic Web Conference, 2023		
	2. Bohui Zhang, Albert Meroño Peñuela, Elena Simperl, Towards Explainable Au- tomatic Knowledge Graph Construction with Human-in-the-loop, In International Conference on Hybrid Human-Artificial Intelligence (HHAI), 2023		
	1. Bohui Zhang, Filip Ilievski, Pedro Szekely, Enrichin Data, In Wikidata Workshop co-located with Interr ence, 2022	ng Wikidata with Linked Open national Semantic Web Confer-	
Teaching	7CUSMNDA Network Data Analysis	KCL	
Assistant	• Module leader: Dr. Albert Meroño Peñuela		
	• Designed and delivered coding lab sessions, topics covered included graph theory, spatial and social network analysis, graph embedding, and semantic web.		
	• Semesters: 2022-23 Semester 2, 2023-24 Semester 2		
	5CCS2FC2 Foundations of Computing II	KCL	
	• Module leader: Dr. Christopher Hampson		
	• Delivered lab sessions on algorithm problems, topics covered included P/NP, SAT solving, approximation, linear programming, and probabilistic algorithms.		
	• Semesters: 2022-23 Semester 1		
Awards	NMES Enterprise & Engagement Partnerships Fund ISWC 2023 Student Travel Award Humane-AI NET Travel Awards Graduation Dean's Honours List Waterloo-Beijing Jiaotong University Tuition Award Excellence Scholarship of Academic Activities Excellence Scholarship of Social Activities	KCL, 2023 ISWC 2023 Conference, 2023 HHAI 2023 Conference, 2023 UWaterloo, 2019 BJTU, 2016, 2017, 2018 BJTU, 2017 - 2018 BJTU, 2015 - 2016	
Academic Service	Organizer for Knowledge Prompting Hackathon 2023. Reviewer for ACM CHI 2023. Member of Knowledge Graphs Interest Group at the Alan Turing Institute.		
Skills	Languages: Python, Java, JavaScript, MATLAB Frameworks: PyTorch, transformers, KGTK Semantic Web Tech Stacks: OWL, RDF, LOD, SPARQL, PROV Databases: MongoDB, MySQL, Neo4j		