Yuchen Zhou

Date of birth:	06/04/1994
Phone number:	0160 4681006
Address:	Schleißheimer Straße 171
	80797 München
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Research Interests: **Knowledge Graphs, Ontology, Large Language Models, Sustainability Standards**

WORK EXPERIENCE

05/2022-07/2024	**Junior Researcher**
	fortiss, An-Institute of Technical University of Munich, Germany
	- Knowledge engineering for corporate sustainability reporting standards in the industry project DiProLeA.
	- Co-supervision of the TUM practical course DLT4PI (Blockchain technology for public sector innovation (IN2106, IN4212)).
	- Project management for the research project KIsusCheck.
01/2020-08/2021	**Student Assistant**
	Institute of Applied Informatics and Formal Description Methods (AIFB), KIT
	- Development of methods for analyzing semantically represented data.
	- Implementation of client-side visualization and optimization of SPARQL query plans using Python and Vue.js.

EDUCATION

10/2017-08/2021	**M.Sc. Information Engineering and Management**
	Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany
	Grade: 1.8 (above average)
	Courses: Semantic Web Technologies, Machine Learning, Big Data Analytics, Knowledge Discovery
	Master's thesis: Risk Hedging for Renewable Generators with Battery Storage Using a Deep Reinforcement Learning Strategy (Grade 1.0)
09/2012-07/2016	**B.Sc. Information Management and Information Systems**
	Beijing University of Posts and Telecommunications (BUPT), Beijing, China
	(University in Project 211)
	Grade: 2.1
	National scholarship for 2 years (2014-2016)
	Bachelor's thesis: Research of the mobile APP using behavioral characteristics of the digital network generation

Selected Publications

Zhou, Yuchen; Gu, Xin; Junsheng Ding; Sirou, Chen; and Perzylo, Alexander: Accessing the Capabilities of KGs and LLMs in Mapping Indicators within Sustainability Reporting Standards. Accepted for presentation in 3rdNLP4KGC @ SEMANTICS2024.

Zhou, Yuchen; Cao, Yuan; and Perzylo, Alexander: Towards Digital Sustainability Reporting: An Ontology for Mapping of Indicators in GRI and ESRS. Submission accepted in 20th International Conference on Semantic Systems (SEMANTICS), 2024.

Zhou, Yuchen; Perzylo, Alexander: OntoSustain: Towards an Ontology for Corporate Sustainability Reporting. International Semantic Web Conference (ISWC), 2023.

Zhou, Yuchen; Henni, Sarah; and Staudt, Philipp, "Managing Intermittent Renewable Generation with Battery Storage using a Deep Reinforcement Learning Strategy" (2022). Wirtschaftsinformatik 2022 Proceedings. 3.

Reference

Prof. Dr. Daniel Mendez	Professor for Software Engineering at the Blekinge Institute of Technology, Sweden Head of the Requirements Engineering division at fortiss mendez@fortiss.org +49 (89) 3603522 168
Alexander Perzylo	Head of the Platform Enginieering division at fortiss perzylo@fortiss.org
Dr.-Ing. Tobias Käfer	Substitute professor, Institute AIFB, KIT, Karlsruhe tobias.kaefer@kit.edu +49 721 608 4 6558

Technique and tools

Programming language	Python JavaScript
Data analysis	R (project experience in text mining with tm package)
Database	SPARQL
	SQL (experience in MySQL)

Language skills

English – Full Professional Proficiency
Germany – Advanced (DSH2)
Chinese – Native