

Area of Expertise	Databases, data warehouse, architecture design, Big Data processing, data integration, query optimization, databases, Semantic Web, schema extraction, polystores, knowledge and ontology engineering
Skills	Java, Python, SQL, BPMN, SQLite, SPARQL, Graph Analytics, ETL, Weka, Rapid-Miner, Tableau, Cloud Services, Web development

Work Experience

09/2020 — Current	PhD Fellow , Dept. of Computer Science, Aalborg University, Denmark I am part of Data, Knowledge, and Web Engineering (DKW) research group and my PhD studies include proposing efficient and scalable solutions for schema extraction and query optimization in graphs.
10/2019 — 08/2020	Scientific Research Assistant , Dept. of Computer Science, Aalborg University, Denmark I was managing the existing research projects and analyzing state-of-the-art in query optimization in databases and graphs.
06/2018 — 10/2018	Data Engineer (Intern) , everis NTT Data Company, Barcelona, Spain everis NTT DATA Company is dedicated to consulting and outsourcing in all sectors. I was working in a Semantic Business Unit (SEMBU) in EU-CORDIS linked open data project. My major responsibilities were designing a scalable architecture and proposing an end-to-end solution for EU-CORDIS research projects.
01/2016 — 09/2017	Software Engineer , eConceptions pvt Ltd, Islamabad, Pakistan eConceptions deals in VAS (Value Added Services) including SMS, IVR and Mobile Apps. I was responsible for developing and maintaining SMS Services and Mobile Applications. Major responsibilities were to provide back-end services for mobile applications and meeting requirements from telecom operators on regular basis.
08/2015 — 09/2015	Web Developer (Intern) , eConceptions pvt Ltd, Islamabad, Pakistan I had been working on web related ongoing projects, e.g., designing, deploying, and maintaining web applications for clients.

Education

01/09/2017 — 31/08/2019	Masters in Big Data Management and Analytics (Computer Science) , TU-Berlin, Germany Thesis: 'Supporting the Semi-Automatic Creation of Schema in Data Integration Systems' Final Grade: 1,4 (Sehr gut/very good)
01/09/2015 — 31/07/2018	Bachelors in Computer Science , COMSATS University, Islamabad, Pakistan Final Grade: 3.84/4.00 CGPA (Campus Gold Medal & Institute Silver Medal)

Teaching & Supervision

Fall 2021 & Fall 2022 BSc Course	Teaching Assistant , Database Management System course for BSc in Software Engineering at Aalborg University Responsibilities: Exercise sessions
Fall 2021, 2022, 2023 BSc Project	Group Supervisor , Knowledge Engineering Toolbox for BSc in Software Engineering at Aalborg University Total of 2 student groups with 5-7 in each group
Spring 2021 BSc Project	Group Supervisor , Analyzing large scale ships AIS data final semester project for BSc in Software Engineering at Aalborg University Total of 3 student groups with 4 in each group

Achievements

Grants	PhD Study Abroad Travel Grants 2023 I was awarded travel grants by Otto Mønsted and Danish Data Science Academy for study abroad during my PhD studies.
Award	Big Data Talent Awards 2019 (Runner-up) I was selected as a runner-up for Big Data Talent Awards 2019 at UPC Barcelona, Spain, for my master thesis.
Scholarship	Erasmus Mundus Scholarship I was awarded a fully funded scholarship for my master's degree in Big Data Management and Analytics.

Medals Gold and Silver Medals
I won a campus Gold Medal award and an institute Silver Medal award at COMSATS University Islamabad, Pakistan, for the highest CGPA: 3.84/4.00 (Batch Spring 2013-17) of my Bachelor's degree.

Others

External Reviewer ISWC'22, VLDB'22, SIGMOD'22

Languages English (C1), Danish (PD-3)

Publications

- 2023 [1] 'SHACTOR: Improving the Quality of Large-Scale Knowledge Graphs with Validating Shapes', **Kashif Rabbani**, Matteo Lissandrini, and Katja Hose, *In Proceedings of the 2023 International Conference on Management of Data, (SIGMOD-Companion '23) June 18-23, 2023, Seattle, WA, USA*
- 2023 [2] 'Extraction of Validating Shapes from very large Knowledge Graphs', **Kashif Rabbani**, Matteo Lissandrini, and Katja Hose, *In Proceedings of the Very Large Databases 2023 (Volume 16 Issue 5, VLDB-2023) August 2023, Vancouver Canada.*
- 2023 [3] 'Incremental Schema Integration for Data Wrangling via Knowledge Graphs', Javier Flores **Kashif Rabbani**, Sergi Nadal, Cristina Gómez, Oscar Romero, Emmanuel Jamin, and Stamatia Dasiopoulou, *In Semantic Web Journal 2023.*
- 2022 [4] 'SHACL and ShEx in the Wild: A Community Survey on Validating Shapes Generation and Adoption', **Kashif Rabbani**, Matteo Lissandrini, and Katja Hose, *In Companion Proceedings of the Web Conference (WWW), 2022.*
- 2021 [5] 'Optimizing SPARQL Queries using Shape Statistics', **Kashif Rabbani**, Matteo Lissandrini, and Katja Hose, *In Proceedings of the 24th International Conference on Extending Database Technology. (EDBT), 2021.*
- 2019 [6] 'ODIN: A dataspace management system', Nadal Francesch Sergi, **Kashif Rabbani**, Óscar Romero Moral, and Shumet Tadesse Nigatu, *In Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) co-located with 18th International Semantic Web Conference (ISWC), 2019.*
- 2019 [7] 'ARDI: Automatic Generation of RDFS Models from Heterogeneous Data Sources', Shumet Tadesse, Cristina Gómez, Oscar Romero, Katja Hose, **Kashif Rabbani**, *In IEEE 23rd International Enterprise Distributed Object Computing Conference (EDOC), 2019.*