

MARK KÖRNER

Graduate Student

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EDUCATION

M.Sc. Data Engineering

Jacobs University

GPA: 1.31 (US: 3.69)

Computer Science Track

Thesis Topic: Graph Representation Learning for Cyber Threat Intelligence

Coursework: Machine Learning, Data Analytics, Data Mining, Big Databases and Cloud Services, Data Visualization & Image Processing

📅 Aug 2018 – To Date

📍 Bremen, Germany

B.Sc. Business Administration

Babson College

GPA: 1.74 (US: 3.26)

Concentrations in Business Analytics and Quantitative Methods

📅 Aug 2014 – May 2018

📍 Wellesley, MA, USA

EXPERIENCE

Consultant - Working Student

KPMG Lighthouse - Data & Analytics

- Developing several financial valuation SaaS solutions for calculations like the pre-deal Purchase Price Allocation (PPA) on the KPMG Sofy Analytics platform
- Working on front- and back-end development in T-SQL, Javascript, HTML & CSS in an agile team environment

📅 Oct 2019 – Present

📍 Bremen, Germany

Data Science Intern

Next Kraftwerke

- Developed a scalable live forecasting framework for photovoltaic plants with a focus on accuracy and stability for multi-period predictions
- Implemented a uniform solution for a majority of the individual plants in the company's portfolio

📅 June 2019 – Aug 2019

📍 Cologne, Germany

Quantitative Methods Tutor

Babson Math Resource Center

- Assisted students with their work in introductory and mid-level statistics courses
- Communicated statistical concepts to students in a concise and simplified manner to strengthen their understanding

📅 Sept 2016 – May 2018

📍 Wellesley, MA, USA

Data Analytics Intern

Next Kraftwerke

- Analyzed the efficiency and profitability of current assets and product offerings to suggest possible strategic improvements to the current portfolio
- Developed several machine learning models in Python to estimate wind power generation in Germany and reported findings to the Head of Energy Trading

📅 June 2017 – Aug 2017

📍 Cologne, Germany

MCFE Student Consultant

SV Post Horn

- Communicated with the Austrian football club in order to identify opportunities to increase ROI in the areas of branding, sponsorship and ticket revenue
- Recommended research-based strategic improvements to the client leading to improved performance in the following season

📅 Jan 2017 – May 2017

📍 Wellesley, MA, USA

RELEVANT PROJECTS

Graph Representation Learning for Cyber Threat Intelligence

Master Thesis

📅 August 2020

- Created graphs from semi-structured data from five different sources to assess similarity of several CTI entities
- Utilized skip-gram and auto-encoder graph neural networks to calculate entity similarity from node and sub-graph embeddings

Bremen Big Data Challenge

Data Mining

📅 March 2019

- Participated in a Machine Learning competition for Human Activity Recognition from sensor data
- Reached 95%+ classification accuracy for the 22 distinct movements using Random Forests and Convolutional Neural Networks

SKILLS

VERY GOOD

Python SQL GitHub Microsoft Suite

GOOD

R Azure DevOps Tableau Javascript
HTML & CSS LaTeX

BASIC

Matlab Gephi Google Analytics

LEADERSHIP

Event Coordinator

JU Graduate Student Association

Responsible for organizing Orientation Week as well as other periodic social events and meetups

Vice President

Babson Mens Club Basketball

Coach, Team Manager and Player

LANGUAGES

German	Native
English	Native
Spanish	A1