

# MARK KÖRNER

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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 Data & Analytics

KPMG Lighthouse

- Developed several financial valuation SaaS solutions for calculations like the pre-deal Purchase Price Allocation (PPA) on the KPMG Sofy Analytics platform
- Assumed a leadership role in an agile team setting while working on front- and back-end development in T-SQL, Javascript, HTML & CSS

📅 Oct 2019 – Present

📍 Bremen, Germany

### Data Scientist

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 Analyst

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