

# Umut Gökdemir

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🐾 MSc. in Bohrdt Team    🏠 Regensburg/Germany



## Education

|   |                     |
|---|---------------------|
| <b>Regensburg University</b>              | Regensburg, Germany |
| M.Sc. in Computational Science            | 04.2021 – Current   |
| <b>Middle East Technical University</b>   | Ankara, Turkey      |
| BSc. in Physics ( <i>GPA: 2.94/4.00</i> ) | 09.2015 – 02.2021   |
| <b>Regensburg University (Erasmus)</b>    | Regensburg, Germany |
| Department of Physics                     | 10.2018 – 02.2019   |

## Experience

|   |                                      |
|---|--------------------------------------|
| <b>Internship at Functional Genomics Lab</b>                          | Regensburg, Germany                  |
| DESI-MSI data visualization   | <a href="#">Source Code - GitHub</a> |
| Molecular value comparison of different scans                         |                                      |
| Detection of tissue sections of DESI-MSI data with K-means algorithm. | <a href="#">Source Code - GitHub</a> |

## Projects

|  |                   |
|--|-------------------|
| <b>Processing Image-like quantum matter data</b> | On going          |
| Master thesis, Department of Theoretical Physics |                   |
| Advisor: Prof. Dr. Annabelle Bohrdt              |                   |
| <b>Analyzing Rydberg Dressed Atoms using DFT</b> | 10.2019 – 06.2020 |
| Graduation Project, Department of Physics, METU  |                   |
| Advisor: Assoc. Prof. Hande Toffoli              |                   |

## Skills

**Programming:**  
Python, C++, OOP, Version control(GitHub), Scientific Python Libraries (Pytorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn), Machine Learning Methods, Shell, Regular Expressions, Data Structure, Algorithm Development

**Professional:**  
Prompt writing, GIMP, Linux, LaTeX and MS Office program

**Language:**  
Turkish (Native), English (Fluent, C1), German (A1)

## Communities

|   |                   |
|---|-------------------|
| <b>CAMADAN Scouting, Youth and Sport Club</b> |                   |
| Scout   | 09.2009 – 04.2014 |
| Leader  | 04.2014 – 09.2019 |
| Administrator                                 | 09.2019 – 04.2021 |

## uM die ecKe! - Regensburg

Organisation team

11.2021 - Current

### Certificates

#### **Datacamp**

Associate Python Developer

01.2025

Python Developer

Ongoing

### Personal

Coffee is my weakest point and for me it is harmony of the nature. I always try to learn new coffee making methods and taste variation of coffee beans.

In addition to coffee, I have a passion for gastronomie. Going a new restaurants and experiencing good tastes make the life easier. I also try to imitate these recipes at home. Moreover, I started jogging after I moved to the Germany. It really helps me to relax and find inner peace.