Uğur Tepe

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EDUCATION

Heinrich-Heine-University

Düsseldorf

Master of Science (M.Sc.), Physics

2023 - Present

Focus on Majorana fermions and topological quantum computation

Heinrich-Heine-University

Düsseldorf

Bachelor of Science (B.Sc.), Physics

2018 - 2023

Thesis: Adaptively measuring quantum expectation values using the empirical Bernstein stopping rule Quantum Technology Research Group, Prof. Dr. Martin Kliesch

EXPERIENCE

Working Student in Finance-, Data- and AI-Services

Spring 2023 – Present

ARAG Versicherung

 $D\ddot{u}sseldorf$

- Maintaining and assisting in development of new software
- Managing and testing new software
- Market research and analysis

Working Student in Event Coordination

Spring 2020 - Winter 2021

Essen

- Klavier-Festival Ruhr
 Logistics of talent and gear
 - Coordination before and during events

Publications

DPG Spring Meetings 2024

Berlin

Poster: Presentation about bachelor thesis

2024

Publications

1. Gresch, Alexander, Ugur Tepe, and Martin Kliesch. "Reducing the sampling complexity of energy estimation in quantum many-body systems using empirical variance information." Journal of chemical theory and computation (2025)

LANGUAGES

Languages: German (Native), Turkish (Native), English (Fluent)

TECHNICAL SKILLS

Programming Languages: Python, LATEX, C/C++, Java, HTML/CSS

Libraries: Pandas, NumPy, Matplotlib, Scipy