

KADİR MURAT TAŞTEPE

• tastepe@physi.uni-heidelberg.de

SUMMARY

I am a physics M.Sc. student with a keen interest in computational science. I have strong analytical and computational skills as well as the experience of working in a research environment. I am willing to learn how does universe works and develop new scientific skills, as in the future I am planning to be a researcher in High Energy Physics.

EDUCATION

Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany

- M.Sc. in Physics

28 Apr 2022 – Present

Hacettepe University, Beytepe, Ankara, Turkey

- M.Sc. in Mathematics

31 Jan 2022 – Present

Hacettepe University, Beytepe, Ankara, Turkey

- B.Sc. in Physics Engineering

04 Oct 2021

Duisburg-Essen University(Erasmus+), Duisburg, Germany

- B.Sc. in Physics

Oct 2017 – Mar 2018

INTERNSHIP EXPERIENCE

Physikalisches Institut Heidelberg (Scientific Assistant)

01 Jul 2022 – 31 Jan 2023

- Mu3e Experiment: based at PSI which searches for the lepton flavour violating decay $\mu^+ \rightarrow e^+ e^- e^+$. (Reference information available on request)

Max Planck IPP Summer University for Plasma Physics and Fusion Research, Greifswald, Germany

12 Sep 2022 – 16 Sep 2022

Wolfram Summer School (Visitor)

28 Jun 2021 – 16 Jul 2021

The Scientific and Technological Research Council of Turkey High Performance and Grid Computing Center(TUBITAK 2247 - ULAKBIM), Ankara, Turkey

15 Mar 2021 – 15 Sep 2021

- Project: TRUBA2023(Reference information available on request)

Istanbul University Particle Physics Winter School(PFBW-2020), İstanbul, Turkey

03 Feb 2020 – 07 Feb 2020

- Focus: The processing of simulated data from the LHC collisions using an Analysis Description Language and its runtime interpreter called CutLang. Data Analysis, ROOT, CutLang.

The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences(IFJ-PAN), Particle Physics Summer Student Programme, Kraków, Poland

- The ATLAS Experiment Department (NZ14)

08 Jul 2019 – 02 Aug 2019

- Project: Charged Particle Production in Xe-Xe Collisions.(Reference information available on request)
- Focus: Data Analysis, Compatibility of ATLAS(CERN) data and MC events.

- Department of Cosmic Ray Research and Neutrino Studies (NZ15)

04 Aug 2019 – 22 Aug 2019

- Project: Baikal-GVD (Reference information available on request)
- Focus: Simulation of the Laser Light Propagation for the Baikal-GVD Calibration System, implemented in MATLAB and C++.

CAMPUS ACTIVITIES	Physics Society , Hacettepe University	
	▪ Board Member	Oct 2019 – Oct 2021
	▪ President	Sep 2018 – Oct 2019
	▪ Founder Member	Nov 2017
LANGUAGES	▪ Turkish: Native language	
	▪ English: C1(CEFR)	
	▪ German: A2(CEFR)	
	▪ French: A1(CEFR)	
COMPUTING SKILLS	▪ Programming Skills	
	• \LaTeX , MATLAB, Mathematica, C/C++, Python, ROOT(Data Analysis Framework), Autodesk 3DS Max, CutLang, MadGraph, MadAnalysis, Pythia, Delphes, Geant4, GPU (CUDA) Computing	
	▪ Operating Systems	
	• DOS, Linux(Ubuntu, CentOS 7, OpenSUSE), Windows, Mac OS	
FIELD OF INTERESTS	▪ High Energy Physics	
	▪ Computational Science	
	▪ Mathematical Methods in Physics	
	▪ Data Analysis	
HOBBIES	Trekking, Hiking, Backpacking, Playing Electric Guitar, Birdwatching, Science Communication, Rowing	