


PERSONAL INFORMATION



**Farrukh ISMOILOV (M. Sc. RWTH)**

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**Gender** Male | **Date of birth** 4 September 1996 | **Nationality** Uzbek

EDUCATION AND TRAINING

2019–2021 **Master of Science in Physics**

[RWTH Aachen University, Germany](#)

- Faculty of Mathematics, Computer Science and Natural Sciences

- Experimental Particle Physics

- Thesis title: "Study of the Lorentz-boosted Higgs boson decay to charm quark-antiquark pairs in association with a vector boson at the CMS experiment"

Summer 2019 **German Language Course**

[Goethe Institute, Göttingen, Germany](#)

A1-A2 Levels

2015–2019 **Bachelor of Science in Physics**

[National University of Uzbekistan, Tashkent, Uzbekistan](#)

- Faculty of Physics

WORK EXPERIENCE

Summer 2019 **JINR Summer Student Program**

[International Intergovernmental Organization , Joint Institute for Nuclear Research, JINR Moscow Region, Dubna, Russian Federation](#)

Associated Member of the Personnel

– GRID Computing, Data Analysis at the CMS Experiment

– Project title: "Measurement of the angular coefficients in Z-boson events using muon pairs on generator level at  $\sqrt{s} = 13$  TeV with the CMS Detector"

Summer 2018 **CERN Summer Student Program**

[European Organization for Nuclear Research, CERN Geneva, Switzerland](#)

Associated Member of the Personnel

– Data Analysis at the CMS Experiment at the LHC (Large Hadron Collider)

– Project title: "Kinematic distributions of the Drell-Yan process in the electron channel in association with Jets"

TEACHING EXPERIENCE

November 2018 – January 2019 **Smart Cities Project**

Smart Tashkent, Moscow State University Branch in Tashkent, Uzbekistan

– Popularization of Science among school pupils

September 2018 – October 2018  
January 2019 – March 2019 **Secondary Specialized School**

Physics Teacher, school №50 Tashkent, Uzbekistan

## COMPUTER SKILLS

**Operating Systems** Windows, Linux OS, Mac OS

**Languages** Python (basic)  
C++ (experience with ROOT only)  
Fortran (basic)

**Applications** Microsoft Office, Libre Office, LaTeX, Maple, Wolfram Mathematica

**Experience with** ROOT (Data Analysis Framework)  
RooStats / RooFit - based software tools used for statistical analysis within the Higgs PAG - Combine.  
CMSSW (Compact Muon Solenoid Software)  
Deep Learning (TensorFlow, Keras)  
SSH (Secure shell), Bash (Unix shell), HTCondor (Batch System)  
Github, Gitlab, Comet (ML)

## LANGUAGES

Uzbek (fluent), Russian (fluent), English (advanced), German (pre-intermediate)

## SOFT SKILLS

**Communication skills** Management, mentoring, flexibility, organization, knowledge sharing

## SCHOLARSHIPS & GRANTS

2019-2021 DAAD (Deutscher Akademischer Austauschdienst, German Academic Exchange Service)

2017-2018 NUUZ (Scholarship of National University of Uzbekistan for Excellent Studies)