

Samuel Jankových

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EDUCATION

8-year Gymnasium Tilgnerova

2012 – 2020

Primary and Secondary education

Leaving exams: All grade 1 (out of 5, 1 is best)

Bratislava, Slovakia

HASCO, Georg August University of Göttingen

2020

Summer School *Grade: A (A is best)*

Göttingen, Germany

Charles University, Faculty of Mathematics and Physics

2020 –

Bc. in Physics *Grade Average: 1.00 (out of 3, 1 is best)*

Prague, Czech Republic

COURSEWORK / SKILLS

- Physics Fundamentals
- Machine Learning
- Deep Learning
- Deep Neural Networks
- Advanced Quantum Mechanics
- General Relativity
- Computing on HPC clusters
- GPU computing
- Linux administration

PROJECTS

Measurement and simulation of a temperature field 🔗 | School Project

2019

- Heat Equation
- Thermal Imaging
- Thermal Conductivity
- <https://arxiv.org/abs/1909.01460>

Fake τ background in τ^* search 🔗 | Summer School Project

2021

- Fake Factor Method
- τ classification
- ATLAS Collaboration
- https://drive.google.com/file/d/1k7So9AuAj62re_s0pZRw0U2cgkDUIR0y/view?usp=sharing

THESES

Quark/Gluon Jet Tagging 🔗 | Bachelor Thesis

2023

- Quark and Gluon Jets
- ATLAS presentations
- Jet Flavour Tagging
- Phase Space Variables
- Jet Constituents
- Monte Carlo Simulations
- Transformer Architecture
- BDT
- Fully Connected Networks
- <https://github.com/jansam123/JIDENN>

PROFESSIONAL INTERESTS

- Particle Physics
- CERN research
- Standard Model
- Beyond Standard Model Physics
- Deep Neural Networks in HEP research
- Transformer Architectures
- Software Design
- Clean Code
- Advanced Statistics
- GPU computing
- Quantum Chromodynamics

AWARDS AND SCHOLARSHIPS

Scholarship for Excellent Study Results

2nd year Bc. *Amount: 770 €*

2022

Charles University, Prague

Scholarship for Excellent Study Results

Summer Term 1st year Bc. *Amount: 770 €*

2021

Charles University, Prague

Scholarship for Excellent Study Results

Winter Term 1st year Bc. *Amount: 640 €*

2020

Charles University, Prague

TECHNICAL SKILLS

Languages: Python, C, C++

Frameworks: ROOT, Tensorflow, Scikit-learn, Uproot, Hugo

Technologies: MacOS, Linux, Git, VS Code, Docker, Slurm, Condor, L^AT_EX

SPOKEN LANGUAGES

English: C1

German: B1

Slovak: native