Samuel Jankových

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EDUCATION

8-year Gymnasium Tilgnerova

2012 - 2020

2020

2020 -

Primary and Secondary education

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

Bratislava, Slovakia

HASCO, Georg August University of Göttingen

Summer School Grade: A (A is best)

Göttingen, Germany

Charles University, Faculty of Mathematics and Physics

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

Prague, Czech Republic

COURSEWORK / SKILLS

• Physics Fundamentals

• Deep Neural Networks

• Computing on HPC clusters

• Machine Learning

• Advanced Quantum Mechanics

• GPU computing

• Deep Learning

• General Relativity

• Linux administration

PROJECTS

2019

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

Fake τ background in τ^* search \square | Summer School Project

2021

- Fake Factor Method
- τ classification
- ATLAS Collaboration
- https://drive.google.com/file/d/1k7So9AuAj62re_s0pZRw0U2cgkDUlR0y/view?usp=sharing

Jet Identification Deep Neural Networks 🗷 | Python Framework

2023

- Deep Learning
- Tensorflow
- Jet Physics
- Quantum Chromodynamics
- https://github.com/jansam123/JIDENN

Quark/Gluon Jet Tagging 🗷 | Bachelor Thesis

- ATLAS presentations
- continuing research at ATLAS
- Quark and Gluon Jets
- Jet Flavour Tagging
- Jet Constituents
- Monte Carlo Simulations
- Transformer Architecture
- $\bullet \ https://github.com/jansam123/bachelor_thesis/blob/master/build/thesis.pdf$

EXPERIENCES

BEZ Transformers a.s., Intern

2019

BEZ Transformers a.s. is a world-wide transformer manufacturer.

Bratislava, Slovakia

- CAD modeling of transformers
- Fluid flow modeling using Ansys Fluent
- Transformer cooling analysis

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: $770 \in$

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: $640 \in$

Charles University, Prague

2020

TECHNICAL SKILLS

Languages: Python, C, C++

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

Technologies: MacOS, Linux, Git, VS Code, Docker, Slurm, Condor, LATEX

SPOKEN LANGUAGES

English: C1 German: B1 Slovak: native 2023