






# GÉRALDINE RÄUBER, PHD

Particle Physicist - Data Analyst - Software Developer

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## EXPERIENCES

### Graduate Developer

#### SAP Fioneer

 Feb. 2025 - Now

 Munich, Germany

- Developing Financial Services Data Management (FSDM) solutions within SAP Fioneer, focusing on data integration and transfer.
- Defining required data transfers between FSDM and FSDL modules.
- Currently undertaking training in ABAP and other relevant courses during the first three months.

### EPFL's Master Valorization program

#### École Polytechnique Fédérale de Lausanne (EPFL) and LPHE

 Feb. - May 2021

 Lausanne, Switzerland

- Continuation and extension of the work done for the master's degree within the LHCb  $R_{K\pi\pi}$  analysis research team.

## EDUCATION

### PhD in Technical Physics

#### Vienna University of Technology (TU Wien)

#### Austrian Academy of Sciences (ÖAW),

#### Institute of High Energy Physics (HEPHY)

 June 2024

 Vienna, Austria

- Thesis subjects: *Measurement of  $|V_{us}|$  using hadronic  $\tau$  decays at Belle II*
- Supervisors: Priv.-Doz. Christoph Schwanda and Dr. Gianluca Inguglia
- Available on: Belle II Document Server and TU Wien Server
- General grade: 1 on a scale going from 1 (*very good*) to 5 (*unsatisfactory*)

### Master of Science MSc in Physics

#### École Polytechnique Fédérale de Lausanne (EPFL),

#### High Energy Physics Laboratory (LPHE)

 February 2021

 Lausanne, Switzerland

- Thesis subject: *Testing lepton flavour universality in  $B \rightarrow K\pi\pi\ell\ell$  decays using 2017 LHCb data*
- Supervisors: Asst. Prof. Lesya Shchutska and Dr. Elena Graverini
- Available on: CERN Document Server
- General grade: 5.37 on a scale going from 6 (*excellent*) to 1 (*very poor*)

## LANGUAGES

- French: Native speaker
- English: Proficient (C1)
- German: Intermediate (B1-B2)

## COMPUTER SKILLS & INTERESTS

### Operating systems

- Linux (Ubuntu), MacOS, Windows

### Programming languages

- C++, Python, ROOT, ABAP, HTML, CSS, PHP, JS, SQL,  $\text{\LaTeX}$

### ML / MVA modeling

- scikit-learn, TMVA, PyTorch

### Data analysis

- Pandas Dataframe, RDataframe, pyhf, RooFit, Matplotlib, Seaborn

### Code editors

- Geany, VS code, Pulsar, Eclipse

### Document editors

- Overleaf, Texmaker, Word, Keynote

### Graphics, Audio and Video editors

- Inkscape, GIMP, Musescore, Garage Band, iMovie

### Methodologies & Tools

- Agile methodology, Jira, Confluence, Github, WTS, VDI

## ACTIVITIES

- Member of the European Committee for Future Accelerators (ECFA) Early-Career Researchers (ECR) Panel from 2022 to 2024
- Flute player since 2005, awarded a music certificate with congratulations in May 2019. Member of the Riviera Symphonic Orchestra (2015–2021) and the Technical University of Vienna Orchestra (2022–2023)
- Regular yoga practice and participation in various sports