Michael Korsmeier

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PROFILE

What I enjoy: Solving problems, automating tasks, modeling, experimenting with new methods and concepts, creativity, engaging in team discussions and exchanges, pushing boundaries.

I am a Data Scientist in the field of Astroparticle Physics. My expertise lies in extracting fundamental information from vast datasets in a targeted manner. I employ statistical methods, advanced algorithms and machine learning for this purpose.

SKILLS

- **Data analysis** and **visualization**
- **Statistical** modeling and **simulation**
- **Management** of a team
- Advanced programming skills in **c++** and **Python**
- Version control with **git**
- Container applications with **Docker**
- **Machine Learning** with **PyTorch**
- High performance and parallelized computing (**MPI** and **OpenMP**)
- Experience with **mySQL** and **php**
- **Public Speaking and technical writing** in English and German (native)

EXPERIENCE

Data Scientist, R&D Consultant — Savantic AB — 2024—Present

Place: Stockholm

- Physics-inspired and data-driven solutions
- Machine learning and AI
- Software development
- Hardware and sensors

Postdoctoral Researcher — Stockholm University — 2020—2023

Place: Stockholm
Topic: Theoretical and computational astroparticle physics

- Data analysis and visualization
- Statistical modeling and simulations
- Co-supervision of Master and PhD students
- Public speaking at international conferences and publication of scientific article
- Reviewer for high-impact scientific journals

PhD — University of Turin and RWTH Aachen University — 2016—2020

Place: Italy and Germany
Topic: Theoretical astroparticle physics and search for Dark Matter
Grade: with exceptions/summa cum laude

Joined PhD with degrees issued from both universities

EDUCATION

RWTH Aachen University — Master of Science — 2014—2016

Grade: 1.0
Focus: Theoretical Physics and Quantum Field Theories

RWTH Aachen University — Bachelor of Science — 2011—2014

Grade: 1.3
Focus: Physics

ORGANISATIONS

FJ Sailing association — Board Member — 2018—Present

Elected as treasurer (4 years), president (5 years), vice president (5 years, current)

- **Management** and **representation** of a nonprofit **organization with 100 members**
- **Organization** of sailing **events** including Continental and World Championships

AWARDS

Borchers-Plakette — awarded to outstanding PhD graduates by RWTH Aachen University

Dean's List — awarded to the best five percent of all students of RWTH Aachen University

INTERESTS

- Sailing — competitions and leisure
- Bouldering and climbing

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