

# Prof. Dr. Frank-Peter Schilling

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## Employment

- 2023- **Deputy Director**, *Centre for AI (CAI)*, ZHAW, Winterthur (CH)
- 2022- **Adjunct Professor of Data Science**, *Victoria University of Wellington*, Wellington (NZ)
- 2022- **Senior Lecturer & Group Leader**, ZHAW, Winterthur (CH)  
Head, Intelligent Vision Systems (IVS) group, Centre for AI (CAI); Computer Vision and MLOps
- 2019-2022 **Senior Researcher**, ZHAW, Winterthur (CH)  
Centre for AI (CAI, 2021-); Inst. for Applied Information Technology (InIT, 2019-2021); AI and Deep Learning
- 2018-2019 **Guest Scientist**, *Zurich University of Applied Sciences ZHAW*, Winterthur (CH)  
Institute for Applied Information Technology (InIT); AI/ML, Deep Learning, Computer Vision
- 2016-2018 **CEO**, *fp solutions*, Bern and Winterthur (CH)
- 2007-2015 **Visiting Researcher**, *CERN*, Geneva (CH)  
Permanently delegated from KIT to conduct research at CMS experiment at the LHC
- 2007-2014 **Senior Research Scientist**, *Karlsruhe Institute of Technology KIT*, Karlsruhe (DE)  
Research at the CMS experiment at the Large Hadron Collider LHC
- 2004-2006 **Research Fellow**, *CERN*, Geneva (CH)  
Preparatory work for the LHC and the CMS experiment
- 2001-2004 **Postdoctoral Fellow**, *DESY*, Hamburg (DE)  
Research and data analysis at the H1 experiment at the HERA particle accelerator

## Education & Training

- 2024 **IEEE CertifAIEd Authorized Lead Assessor**, *IEEE SA*
- 2023-2024 **Certificate of Advanced Studies (CAS)**, *University Didactics, PH Zurich*
- 2015 **IPMA Certification in Project Management**, *VZPM*
- 1998-2001 **PhD in Physics (Dr. rer. nat.)**, *University of Heidelberg (DE)*
- 1992-1998 **Diploma in Physics (MSc equiv.)**, *University of Heidelberg (DE)*

## Awards & Publications

- 2013 **EPS HEP Prize**, as member of CMS collaboration at CERN, for the discovery of the Higgs boson
- 1998- **More than 450 scientific publications, h-index of 160**  
For details, see <https://fpschill.github.io/publications/>

## Research Grants

- 2022 "certAlnty", Innosuisse with CertX AG, 600 KCHF
- 2022 "OSR4H", with Roche Diagnostics, 30 KCHF
- 2021 "AC3T", Innosuisse with Varian Medical Systems, 785 KCHF
- 2020 "ANNPR 2020", ZHAW Digital Futures Fund, 10 KCHF
- 2007-2014 Contributor to several research grants for MEUR research group funding with the German BMBF

## Project Management

- 2019- **Project manager**, *Applied Deep Learning*, ZHAW CAI  
Project management for various 3rd party funded research projects in the domain of AI, Deep Learning, Computer Vision and MLOps; Financial planning and reporting; IP contracts
- 2010-2011 **Programme coordinator "Top Quark Physics"**, *CMS experiment*, CERN  
Led 1 out of 7 physics working groups (100+ members) of the collaboration; strategic planning, scheduling and execution of analysis of first LHC data; assessment and quality control; orchestrating of publications; reporting to management

- 2006-2007 **Project leader "Silicon tracker alignment"**, *CMS experiment*, CERN
- 2003-2004 **Trigger coordinator**, *H1 experiment*, DESY
- 2001-2003 **Physics group coordinator**, *H1 experiment*, DESY

## Research Infrastructure

- 2023- **Expert group member**, *Data Ethics, Big Data & AI, data innovation alliance*
- 2022- **Coordinator**, *PhD Programme in Data Science between ZHAW and University of Zurich*
- 2022- **Head**, *Continuing Education, ZHAW Centre for AI*
- 2019- **Main organizer**, *CAI colloquium and Datalab seminar*, ZHAW  
Regular seminars on data science topics with internal and external speakers
- 2019- **Advisory board member**, *Breakout group DIZH fellowships*, ZHAW digital
- 2011-2014 **Co-founder**, *WG on Top Quark Physics at LHC*, LHC Physics Center at CERN (LPCC)  
Transnational group of experts discussing scientific topics at the forefront of research in top quark physics
- 2008-2014 **Coordinator**, *Top Quark Physics WG*, Helmholtz Alliance *Physics at the Terascale*  
The "Terascale" Alliance bundles German activities in the field of high-energy collider physics.
- 2008-2012 **Advisory board member**, *DESY scientific board (DESY WA)*, DESY  
DESY WA is a committee which advises the DESY directorate in matters of research policy

## Workshop and Conference Organization

- 2021 ISSDS 2021, Intl. Symposium on the Science of Data Science, ZHAW/Online (co-organizer)
- 2020 ANNPR 2020, 9th IAPR Workshop on Artificial NN's in Pattern Recognition, ZHAW/Online (chair)
- 2011, 2012 Helmholtz Alliance workshops on top quark physics, Wuppertal and Berlin (co-organizer)
- 2011 TOP 2011, 4th Intl. workshop on top quark physics, Sant Feliu de Guixols (IAC member)

## Recent Teaching & Student supervision

### Head of studies

- 2023- Creation of new modules: MLOps, Computer Vision with Deep Learning, Generative AI in Teaching, CAS Advanced ML and MLOps
- 2022- Head of studies: MLOps, Computer Vision with Deep Learning, Generative AI in Teaching, CAS Advanced ML and MLOps, CAS Machine Intelligence

### Teaching

- 2024- "MLOps" (BSc and Cont. Education), ZHAW, Spring 2024, Fall 2024
- 2024- "Computer Vision with Deep Learning" (BSc), ZHAW, Spring 2024
- 2022- "Deep Learning" (CAS Machine Intelligence), ZHAW, Fall 2022, 2023, 2024
- 2019- "Artificial Intelligence 1" (BSc), ZHAW, Fall 2019, 2020, 2021, 2022
- 2019 "Machine Intelligence Lab" and "AI Seminar" (MSc), ZHAW, Fall 2019

### Student supervision

- 2001- Supervision of 10 PhD students (AI/ML, computer vision; QCD, Top quark and Higgs physics)
- 2021- Supervision of several MSc/MAS students (AI/ML, computer vision)

## Networks

data innovation alliance, European Physical Society (EPS), German Physical Society (DPG), CLAIRE, ELLIS (supporter), ZHAW Datalab, ZHAW Digital Futures Lab, ZHAW Digital Health Lab

## Journals

Reviewer/PC member for EPIA 2022, CVPR 2022, AutoML 2022, ANNPR 2022, ISSDS 2021, ANNPR 2020  
Reviewer/Guest Editor for MDPI (several), Phys.Lett.B, Eur.Phys.J. C, JHEP, Int.J.Mod.Phys. A

## Languages

German (native); English (business fluent); French (very good)