

Frank-Peter Schilling

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Employment

- 2024-2025 **Director a.i.**, *Centre for AI (CAI)*, ZHAW, Winterthur (CH)
- 2023- **Deputy Director**, *Centre for AI (CAI)*, ZHAW, Winterthur (CH)
- 2022- **Senior Lecturer & Group Leader**, ZHAW, Winterthur (CH)
Head, Intelligent Vision Systems (IVS) group, Centre for AI (CAI)
- 2022-2025 **Adjunct Professor of Data Science**, *Victoria University of Wellington*, Wellington (NZ)
- 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
- 2015-2018 **Owner**, *fp solutions*, Bern and Winterthur (CH)
Consulting, Software engineering
- 2007-2014 **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
- 2015- **IPMA Certification in Project Management**, VZPM
- 2023-2024 **Certificate of Advanced Studies (CAS)**, University Didactics, PH Zurich
- 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 HEPP Prize**, as member of CMS collaboration at CERN, for the discovery of the Higgs boson
- 1998- **More than 450 scientific publications, h-index of 165**
For details, see <https://fpschill.github.io/publications/>

Recent Research Grants

- 2025 "SCRAI: A Think-and-Do-Tank for Responsible Development and Societal Alignment of AIS", DIZH, 2 MCHF
- 2025 "AMR: Digitalizing the fight against antibiotic resistances", DIZH with UZH, 300 KCHF
- 2022 "certAlnty: A certification scheme for AIS", Innosuisse with CertX AG, 600 KCHF
- 2022 "SKACH: Swiss Participation in the Square Kilometre Array Observatory (SKAO)", SERI (CH consortium)
- 2021 "AC3T", Innosuisse with Varian Medical Systems, 785 KCHF

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*
- 2022-2024 **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 & Module Responsibility

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

Teaching

- 2025- "Machine Learning & Data in Operation" (MSc), ZHAW, Spring 24,25
- 2024- "MLOps" (BSc & Cont. Edu.), ZHAW, Spring & Fall 24, Spring & Fall 25
- 2024- "Computer Vision with Deep Learning" (BSc), ZHAW, Spring 24,25
- 2022- "Deep Learning" (CAS Machine Intelligence), ZHAW, Fall 22,23,24,25
- 2019-2022 "Artificial Intelligence 1" (BSc), ZHAW, Fall 19,20,21,22

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), CAIRNE, ELLIS (supporter), ZHAW Datalab, 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 IEEE Trans., Phys.Lett.B, Eur.Phys.J. C, JHEP, Int.J.Mod.Phys. A

Languages

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