

ORCID: 0000-0003-2617-4319

December 15, 2021

CONTACT
INFORMATION

AEC, Institute for Theoretical Physics
University of Bern
Sidlerstrasse 5
3012 Bern
Switzerland

E-mail: trindlis@itp.unibe.ch

EDUCATION

Swiss Federal Institute of Technology (ETH), Zürich, Switzerland

Dr. Sc. ETH Zurich in Physics

Aug. 2017

- Thesis title: *Lattice Field Theory at Finite Density* (defended: March 6, 2017)
- Advisors: Prof. Dr. Charalampos Anastasiou, Dr. Philippe de Forcrand
- Topics: lattice field theory, finite density, QCD, linear and non-linear sigma models, dual variables, worm algorithms.
- DOI: 10.3929/ethz-b-000167730

MSc ETH Zurich in Physics

Jun. 2013

- Thesis title: *Quantum Gravity: a review of different approaches and an analysis of the phase transition in 4D Euclidean dynamical triangulation*
- Advisor: Dr. Philippe de Forcrand

BSc ETH Zurich in Physics

Feb. 2011CURRENT
POSITION**University of Bern, Bern, Switzerland***Postdoctoral researcher at AEC and Institute for Theoretical Physics***Sep. 2021 - Now**

- Advisor: Prof. Dr. Urs Wenger

PREV. WORK
EXPERIENCE**University of Helsinki, Helsinki, Finland***Postdoctoral researcher at the Department of Physics***Dec. 2016 - Aug. 2021**

- Advisor: Prof. Dr. Kari Rummukainen

Swiss Federal Institute of Technology (ETH), Zürich, Switzerland*PhD student and researcher***Apr. 2013 - Nov. 2016**

- Work on own research projects.
- Teaching assistant for lectures of the Institute for Theoretical Physics.
- Attending lectures and participating at international conferences.

Alfred-Escher Foundation, Zürich, Switzerland*Software developer for digitalization project***Jun. 2012 - May 2013**

- Development of a program for automated text-line recognition in hand-written historical letters.
- Development of a web-based, shared access graphical user interface for controlling and editing the automatically generated data.

ETH Library, Zürich, Switzerland*Student assistant in the library's IT-services team***Apr. 2006 - Mar. 2011**

- Preparation and programming of statistics, evaluations and work lists.
- Implementing data mutations in the library system.
- Carrying out monthly tasks as the loading of user data and the extraction of fees lists.
- Supporting other team members in IT projects, in particular with Perl and SQL programming tasks.

FURTHER
EDUCATION

University of Helsinki, Helsinki, Finland

University pedagogy 1

Mar. - May 2021

- Introductory course to teaching and learning at the university level.

Generic academic skills and constructive alignment

Oct. 2020 - Jan. 2021

- Course on how to design and teach university courses.

Approaches to academic leadership

Oct. - Nov. 2020

- Workshop on approaches to management and leadership in the university context.

CSC – IT Center for Science LTD., Espoo, Finland

advanced parallel programming

Feb. - Mar. 2019

- CSC+PRACE training on MPI+OpenMP hybrid programming and parallel I/O.

CAREER
BREAKS

Swiss Armed Forces, Switzerland

Recruitment

Apr. 2002

Military education and training (reconnaissance group leader)

Nov. 2004 - Aug. 2005

Annual repetition courses (7×24 days)

Oct. 2006 - Sep. 2013

Discharge after fulfilment of official duty (400 days in total)

Dec. 2014

SUPERVISORY
EXPERIENCE

University of Helsinki, Helsinki, Finland

Co-supervisor for PhD thesis at the Department of Physics

Dec. 2018 - Now

- Title: (not defined yet)
- Topics: QCD-like dark matter, thermal phase transitions, early universe.

Co-supervisor for MSc thesis at the Department of Physics

May - Sep. 2018

- Title: *Measuring the efficiency of the Worm and Metropolis algorithms in producing statistically independent observations*
- Topics: XY-model, dualization, efficiency of different Monte Carlo algorithms.

TEACHING
EXPERIENCE

University of Helsinki, Helsinki, Finland

Teaching assistant

Spring semester 2020

- PAP335: General Relativity
 - Graduate course in general relativity.
 - Lecturer: Prof. S. Räsänen

Swiss Federal Institute of Technology (ETH), Zürich, Switzerland

Teaching assistant

Autumn semester 2015

- 402-0830-00L: General Relativity
 - Graduate course in general relativity.
 - Lecturer: Prof. M. Gaberdiel

Teaching assistant

Spring semester 2015

- 402-2214-00L: Theory of Heat
 - Undergraduate course in thermodynamics, kinetic gas theory and statistical mechanics.
 - Lecturer: Prof. T. K. Gehrman

Teaching assistant

Autumn semester 2014

- 402-0849-00L: Introduction to Lattice QCD
 - Graduate course giving an introduction to quantum fields, in particular QCD, formulated on a space-time lattice.
 - Lecturer: Dr. P. de Forcrand

Teaching assistant

Spring semester 2014

- 402-0210-74L: Proseminar in Theoretical Physics: Topological Objects in Physics
 - A guided self-study of original papers and of advanced textbooks in theoretical physics for graduate and undergraduate students.
 - Main instructor: Dr. P. de Forcrand

Teaching assistant

Autumn semester 2013

- 402-0830-00L: General Relativity
 - Graduate course in general relativity.
 - Lecturer: Prof. P. Jetzer