johannessappl

mathematician & CFD scholar

contact information

education

Johannes Sappl University of Innsbruck Technikerstraße 15 6020 Innsbruck

since 2017 Doctor of Philosophy

University of Innsbruck

I am currently working on accelerating computationally expensive numerical simulations of incompressible fluids through machine learning techniques.

Austria 2015–2017

Master of Science in Technical Mathematics

University of Innsbruck

+43 (0) 512 507 62189

Specialization: functional analysis, topology, signal processing Thesis: Efficient Data Representation for Automotive Radar

Adviser: Univ.-Prof. Dr. Markus Haltmeier

johannes.sappl@uibk.ac.at

french basic knowledge

♥ Julia, Python, Matlab, R,

Together with an employee of Infineon specialized in computer engineering I conducted research on convenient methods for radar image data compression. This is of particular interest concerning the automotive sector.

languages german mother tongue

english fluent

programming

C++, Git, Shell

2012-2015

Bachelor of Science in Technical Mathematics

Specialization: complex analysis, discrete mathematics, optimization

Thesis: Spherical Harmonics and their Application in Simulating Interactions

with Fullerenes

I implemented a numerical solution to the time-dependent Schrödinger equation and condensed the theoretical framework of spherical harmonics. Thesis: Splitting Methods in the Context of Simulating Interactions with

Sequel of first thesis dealing with the higher dimensional case and efficient implementation thereof.

2007-2011 High School

Bundesrealgymnasium Wörgl

Specialization: mathematics, physics, english Honor roll four years running, graduated with honors

experience

MCI Management Center Innsbruck

Innsbruck, AT

Mathematician

Together with a colleague we developed algorithms for the EU-funded project OpenSKIMR that aims at matchmaking between employees, jobs and the required learning to support people in creating their personal career routes.

2016-2017 **University of Innsbruck** Innsbruck, AT

Scientific Employee

I was employed by Infineon Technologies on a part-time basis in order to compress radar image data. The goal was to develop a method with sufficient compression ratio and tolerable error rate so as not to loose important information in the process.

since 2015 University of Innsbruck Innsbruck, AT

External Lecturer

Posing Analysis and Linear Algebra exercises which the students then had to solve with my aid during the seminar.

2014-2015 **University of Innsbruck** Innsbruck, AT

Tutor

Giving small lectures on introductory topics in Analysis to first semester math students and helping them with potential questions.

2017

additional education

2014–2015 Notfallsanitäter Samariterbund Tirol

Over the course of one year I have been receiving advanced theoretical and

practical paramedic training in my spare time.

2011 Rettungssanitäter Samariterbund Tirol

Two-month training at the start of social service.

other experience

since 2011 Samariterbund Tirol Kirchbichl, AT

Paramedic

More than 2500 hours of volunteer work.

2011 Samariterbund Tirol Kirchbichl, AT

Paramedic

Full-time employee for two months after completing social service.

2011–2012 Samariterbund Tirol Kirchbichl, AT

Social Servant

Responding to emergency calls and transportation of sick patients.

interests

professional: Navier–Stokes equations, machine learning, computational fluid dynamics, statistics, numerical mathematics

personal: literature, eSports, Linux, medicine, DIY, motorcycle