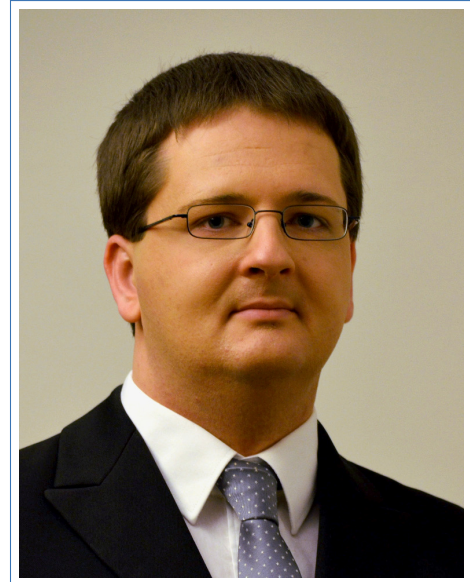


Christoph Saulder

Curriculum Vitae

Personal Data

Name Christoph Saulder
Date of Birth 23/10/1984
Place of Birth Wels, Austria
Citizenship Austria
Marital status Single



Core competences

- **IT all-rounder** with profound skills in **data science/big data** as well as continuously improving **programming skills** (C/C++, Python, Fortran, SQL, ABAP, ...)
- solid **technical background**: graduated (PhD) astronomer & (BSc) physicist (IT-content in astronomy: ~ 70%) with broad interdisciplinary interests
- **experience with international projects** (Germany, Chile, Korea)
- **profound theoretical understanding** (dissertation) and keen **thoroughness**, combined with an eagerness for **practical implementations** (game programming since adolescence)
- great **communicative skills & experience with talks and lectures** (conferences, workshops, public outreach for all ages)
- **autonomous problem solving style** and excellent **analytic skills** due to many years of experience working with **new & complex questions**

Work Experience

- 11/2017 – ongoing **Research Fellow**, *Korea Institute for Advanced Study*, Seoul, South Korea.
- 07/2017 – 10/2017 **IT Consultant**, *DSC GmbH*, Vienna, Austria.
SAP IS-U, programming in ABAP, Dynpros, building master data for settlement, smart meter migration, find and correct data inconsistencies
- 01/2014 – 10/2014 **research project**, *European Southern Observatory*, Garching bei München, Germany.
research for PhD thesis (MPI-programming in Fortran, statistic analysis of large datasets), talks
- 11/2011 – 10/2013 **research project**, *European Southern Observatory*, Santiago, Chile.
research for PhD thesis (statistic analysis of large datasets, programming in Fortran, C, and SQL), technical projects at different observatories (Bash Shell and Python programming), public talks, conference organisation, science diplomacy, press interviews
- 09/2003 – 04/2004 **compulsory military service**, *Austrian armed forces*, Kirchdorf an der Krems, Austria.
clerk in the main office, various administrative tasks
- side and holiday jobs**: teaching assistant/private tutor, janitor/gardener, interviewer, conference co-organiser, shop assistant at trade fair, construction worker, assembly line worker/quality inspector, promoter, director's assistant

Education

- 04/2010 – 03/2016 **PhD (Dr.rer.nat.) in Astronomy**, *University of Vienna*, graduated (grade A), topic of the PhD thesis: *Observational tests of an inhomogeneous cosmology*.
content of studies: data science, statistic analysis, extragalactic astrophysics, Python programming, dosimetry

- 10/2007 – 04/2010 **MSc (Mag.rer.nat.) in Astronomy**, *University of Vienna*, graduated with distinction, topic of the master thesis: *Dynamics of the Local Group in different theories of gravity*. content of studies: parallel computing, astrophysics, nuclear physics, radio astronomy, Shell and Fortran programming, chaos theory, fitting procedures
- 10/2004 – 08/2007 **BSc (Bakk.rer.nat.) in Astronomy**, *University of Vienna*, graduated with distinction, topic of the bachelor thesis: *Lie-Integrator*. content of studies: optics, numerical simulations and models, celestial mechanics, image editing and analysis, C- and Delphi programming, history of science
- 04/2013 **BSc in Physics**, *University of Vienna*, accredited by changeover from the diploma programme.
- 10/2004 – 04/2013 **diploma study in Physics**, *University of Vienna*, moved to new BSc programme. content of studies: analog and digital electronics, particle physics, quantum mechanics, theory of relativity, Java, Basic, and C-programming, error analysis
- 07/2001 **summer school**, *Sommerakademie für begabte Schülerinnen und Schüler, Bad Leonfelden, Austria*, course: *Bionics*.
- 09/1995 – 06/2003 **grammar school with focus on science**, *Bundesgymnasium und Bundesrealgymnasium, Brucknerstraße; Wels, Austria*, Matura (~ British A-level).

Languages

- **German** (Native)
- **English** (Fluent)
- **Spanish** (Conversational)
- **French** (Conversational)
- **Russian** (Basics)

Skills and Experience

Programming- and Script-languages	Fortran, Python, C/C++, ABAP, Java, Pascal/Delphi, Basic, MPI, JavaScript, LaTeX, SQL, HTML, CSS, PHP, Bash-Shell, R, microcontroller programming
Software user-experience	Windows, Linux, Office (Microsoft, LibreOffice, Open Office), SAP, Adobe Acrobat, Navision, GIMP, Gnuplot, Outlook/Thunderbird, Video/Image/Audio-editing
Knowledge	data science, statistical analysis, extragalactic astronomy, cosmology, quantum field, computational astrophysics, astronomical instrumentation, electronics, software development, bionics, archaeoastronomy
Soft skills	public speaking, conference organisation, science outreach, basic science diplomacy, teaching, intercultural competence, press interviews

Scientific publication record

Hirsch Index: 3

5 publications::

3 first author papers published in refereed journals (2 with ≥ 10 citations each)

1 first author papers submitted to a refereed journal

1 first author conference proceedings paper

Hobbies

present	travelling, photography, laido, skiing, hiking, sailing, board games, reading, drawing, archery, coin collecting, cooking, ...
past	game programming, Judo, foil fencing, dancing, ...
other interests	human rights, environment protection, geopolitics, world history, palaeontology, single malt whiskys, ...