Christoph Saulder

Curriculum Vitae

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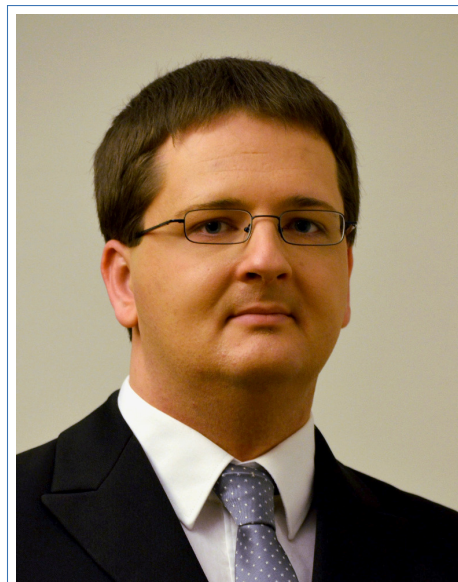🖳 *www.equinoxomega.net*
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Ⓢ *equinoxomega*

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: $\sim 70\%$) with broad interdisplinary interests
- **experience with international projects** (Germany, Chile, Korea)
- **profund theortical understanding** (dissertation) and keen **thoroughness**, combined with an eagerness for **pratical 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

06/2020 – ongoing	**Research Fellow**, *Korea Astronomy and Space Science Institute*, Daejeon, South Korea.
11/2017 – 11/2019	**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 ($\sim$ British A-level).

Languages

- **German** (Native)
- **English** (Fluent)
- **Spanish** (Conversational)
- **French** (Conversational)
- **Russian** (Basics)
- **Korean** (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, Blender, GIMP, Gnuplot, Outlook/Thunderbird, Audacity
Knowledge	data science, statistical analysis, extragalactic astronomy, cosmology, quantum field, computational astrophysics, astronomical instrumentation, electronics, software development, bionics, archaeoastronomy, video editing
Soft skills	public speaking, conference organisation, science outreach, basic science diplomacy, teaching, intercultural competence, press interviews

Scientific publication record

Hirsch Index: 5

6 publications::

5 first author papers published in refereed journals (3 with $\geq$ 20 citations each)

1 paper submitted

2 first author conference proceedings paper

Hobbies

present	travelling, photography, Iaido, 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, ...