

Oliver Völkel

PhD Student - Astrophysics

CONTACT

ADDRESS

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EMAIL

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WEBSITE

voelkel-science.github.io

LINKDEDIN

linkedin.com/in/oliver-völkel

SKILLS

SOFTWARE DEVELOPMENT

C, C++, C#, python, Fortran

GAME DEVELOPEMENT

unity3D

DATA VISUALIZATION

paraview, visIt, matplotlib

HIGH PERFORMANCE COMPUTING

COMPUTATIONAL FLUID DYNAMICS

RADIATIVE TRANSPORT

GROUP COORDINATION

EVENT MANAGEMENT/ORGANIZATION

LANGUAGES

GERMAN

Mother tongue

ENGLISH

Fluent (work language)

FRENCH

Basics

PROFILE

Proficient scientist in astrophysics with a strong background in numerical simulations, computational physics, data analysis and scientific software development. Four first author publications during the PhD. Excellent science communicator and group coordinator. Highly motivated and goal oriented team-player with entrepreneurial mindset.

CURRENT POSITION

PhD Student

Max Planck Institute for Astronomy

January 2018 - Current

- working in planet formation
- computational physics
- scientific software development
- data analysis

EMPLOYMENT HISTORY

Scientific Assistant

University of Tübingen

October 2017 - December 2017

- computational physics
- scientific software development

Student Assistant

University of Tübingen

October 2013 - March 2014

- reflectivity measurements of HESS telescope mirrors
- data analysis

INTERNATIONAL COLLABORATIONS

Southwest Research Institute

Boulder, Colorado - USA

2.5 months visit as guest researcher

February 2019 - April 2019

- established long term continuous collaboration
- resulted in two collaborative publications

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CONFERENCES & SCHOOLS

Spinning Fluids - September 2021

Contributed talk

Physics of star formation - Heidelberg

Harvard workshop - December 2020

Contributed poster

Exoplanets III - July 2020

Contributed talk

PPP2020 - March 2020

Contributed talk

From protoplanetary discs to planetary systems - September 2019

Contributed talk

Extreme solar systems - August 2019

Contributed poster

International High Performance

Computing Summer School

- July 2019

Contributed poster

Japanese German meeting on exoplanets

- August 2018

Contributed talk

Computational fluid dynamics Summer

School (HLRS) - February 2016

HONORS & AWARDS

Ernst Patzer Award 2021

Ernst Patzer Foundation

Awarded for one of the best publications by a young researcher (MPIA/ZAH) in Heidelberg.

COMMUNITY SERVICE

Young researchers representative

DFG SPP 1992

Organization of several retreats, virtual & physical and general contact person for young researchers.

LOC Member of numerous conferences

including

- **PPP2020 Conference**
Ringberg Castle - 2020
- **Japanese German meeting on exoplanets**
Edesheim - 2018

ENTREPRENEURIAL PROJECTS

sci.an sci-an.com

Co-founder and Team leader

sci.an is a virtual conferencing and networking platform I developed with other PhD students during the Covid-19 pandemic.

EDUCATION HISTORY

PhD Astrophysics

Max Planck Institute for Astronomy

January 2018 - Current

Master of Science - Physics

University of Tübingen

September 2016 - September 2017

Bachelor of Science - Physics

University of Tübingen

September 2012 - September 2016