

Stefan Hackstein

Physicist, Statistician

- February 12th, 1990
- Horner Landstr. 372 22111 Hamburg, Germany
- +49 (0)177 516 2131
- stefan.hackstein@hs.unihamburg.de
- German

Social Network



LinkedIn Profile



Github Publications

Languages

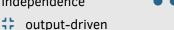
German





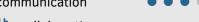
Soft Skills

independence



- motivated
- # proactive
- # focused
- # inquisitive

communication



- # collaborative
- expressive

Working Experience

2015 - 2020 Research assistant Universität Hamburg

Perform simulations of physical models and evaluate results by sta-

tistical comparison to observations.

2007 - 2009 Office administrator

Tiefbau Janßen GmbH & Mercator Berufskolleg File orders and customer data, measure construction sites and pre-

pare proposals.

Education

Study

2017 – 2020 PhD in physics

Universität Hamburg

Focus: perform simulations and evaluate with Bayesian statistics.

PhD Thesis ($\emptyset 1, 0$)

Measure cosmic magnetic fields with extreme astrophysical messen-

gers.

2015 - 2017 **MSc Physics**

Universität Hamburg

Focus: particle physics & astrophysics

Master Thesis ($\varnothing 1, 0$)

On the propagation of ultrahigh-energy cosmic rays in the local Uni-

2011 – 2015 **BSc Physics**

Universität Hamburg

Focus: particle physics & astrophysics

Bachelor Thesis ($\emptyset 1, 0$)

Ultrahigh-energy cosmic rays and the study of cosmic magnetism

School

2009-2010 **Abitur** Max-Weber-Berufskolleg

Focus: maths, business administration

Teaching

2017-2019 exercise classes Universität Hamburg

quantum physics & theoretical physics Tutor high school students in experiments

2013-2015

2019

Universität Hamburg

quantum physics & theoretical physics

Awards

2018 3. best teaching class Universität Hamburg

Extra-Curricular Activities

Organize scientific focus-session www.astro.ru.nl/imagine 2020

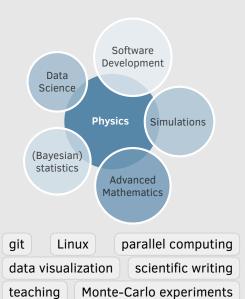
2018 prepare and execute public experiment

2010 - 2011 Travel Europe

Stefan Hackstein

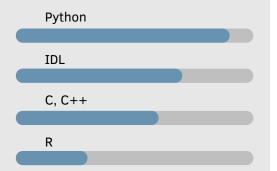
Physicist, Statistician

Hard Skills -



Programming

work planning



LaTex

MS-Office

Publications

2020, subm.	Fast radio burst redshift distribution and the missing baryons Hackstein, S., Brüggen, M., Vazza, F. Monthly Notices of Royal Astronomical Society
2020	Redshift estimates for fast radio bursts and implications on intergalactic magnetic fields Hackstein, S., Brüggen, M., Vazza, F., Rodrigues, L. F. S.
2020	MNRAS PrEFRBLE: Probability Estimates for Fast Radio Bursts to obtain model Likelihood Estimates Hackstein, S. https://github.com/shackste/PreFRBLE
2019	Fast radio burst dispersion measures and rotation measures and the origin of intergalactic magnetic fields Hackstein, S., Vazza, F., Brüggen, M., Gaensler, B. M., Heesen, V. MNRAS
2019	Propagation of UHECRs in the local Universe and origin of cosmic magnetic fields Hackstein, S., Vazza, F., Brüggen, M., Sorce, J. G., Gottlöber, S. Proceedings of IAU Focus Meeting 8
2020	Simulations of ultra-high Energy Cosmic Rays in the local Universe and the origin of Cosmic Magnetic Fields Hackstein, S., Vazza, F., Brüggen, M., Sorce, J. G., Gottlöber, S. MNRAS
2016	Propagation of ultrahigh energy cosmic rays in extragalactic magnetic fields: a view from cosmological simulations Hackstein, S., Vazza, F., Brüggen, M., Sigl, G., Dundovic, A. MNRAS