

Stefan Hackstein,

Physicist, Statistician

February 12th, 1990

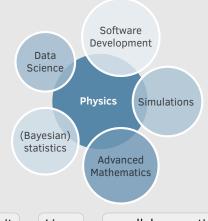
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German

Hard Skills



Linux parallel computing git data visualization scientific writing teaching Monte-Carlo experiments work planning LaTex MS-Office

Programming

Python

IDL

C, C++

R

Working Experience

2015 - 2020 Research associate

Universität Hamburg Conducting and executing research plans. Writting software for data analysis and model evaluation. Performing simulations of physical models. Evaluating results by statistical comparison to obser-

vations.

2007 - 2009 Office administrator Tiefbau Janßen GmbH & Mercator Berufskolleg

Filing orders and customer data. Measuring construction sites.

Preparing proposals.

Education

Study

2017 - 2020 PhD in Physics Universität Hamburg

high-energy astrophysics, computational cosmology,

Bayesian statistics. PhD Thesis ($\varnothing 1, 0$)

"Measure cosmic magnetic fields with extreme astrophysical mes-

2015 – 2017 **MSc Physics** Universität Hamburg

Focus: particle physics & astrophysics

Master Thesis ($\emptyset 1, 0$)

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

Universe"

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 teaching university classes Universität Hamburg

quantum physics & theoretical physics

2019 Tutoring high school students in experiments Universität Hamburg

2013-2015 Universität Hamburg Tutor

quantum physics & theoretical physics

Awards

2018 Award for best teaching Universität Hamburg

Extra-Curricular Activities

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

2018 preparing and executing public experiment

2010 - 2011Traveling Europe

Stefan Hackstein, Publications

Physicist, Statistician

Social Network



LinkedIn Profile



Github Publications

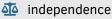
Languages

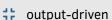






Soft Skills -





motivated

proactive

focused

inquisitive communication

collaborative

expressive

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 inter-

galactic magnetic fields

Hackstein, S., Brüggen, M., Vazza, F., Rodrigues, L. F. S.

MNRAS

2020 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

Propagation of UHECRs in the local Universe and origin of cosmic 2019

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 mag-

netic fields: a view from cosmological simulations

Hackstein, S., Vazza, F., Brüggen, M., Sigl, G., Dundovic, A.

MNRAS

