Johannes **Stoiber**

PhD Candidate in Astrophysics · at LMU Munich

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Education

Ludwig-Maximilians-Universität Munich   *Munich, Germany*

PhD Candidate in Astrophysics   *January 2025 - Now*

- Origin of Magnetic Fields and Multi Messenger Particles in the Local Universe

Ludwig-Maximilians-Universität Munich   *Munich, Germany*

Master of Science in Astrophysics   *October 2022 - November 2024*

- Final Grade: 1.11 (German System), GPA 3.93 (for a range from 2.0 to 4.0)
- Specializing in theoretical and numerical astrophysics
- Title of Master Thesis: "Spatially-Resolved Age and Metallicity of Galaxies and Their Stellar Shells and Streams in the *Magneticum* Simulation "

Ludwig-Maximilians-Universität Munich   *Munich, Germany*

Bachelor of Science in Physics   *October 2019 - September 2022*

- Final Grade: 1.73 (German System), GPA 3.52 (for a range from 2.0 to 4.0)
- Specialization in astrophysics
- Titel of Bachelor Thesis: "Tracing Gas Properties in Merging Galaxy Clusters in the *Magneticum* Simulation "

Joseph-von-Fraunhofer-Gymnasium Cham   *Cham, Germany*

General University Entrance Qualification (Abitur)   *September 2010 - July 2019*

- Final Grade: 1.3 (German System), GPA 3.8 (for a range from 2.0 to 4.0)
- Honoured with the DPG Abitur Award for the best performance in physics of the graduating class of 2019
- Seminar Paper: "Recording and Evaluation of the Spectrum of the Star Betelgeuse"

Work Experience

Research Assistant at the University Observatory   *Munich, Germany*

University Observatory Munich   *April 2023 - October 2024*

Supplying new Scientific Data to the Cosmological Web Portal: `c2papcosmosim.uc.lrz.de`

Teaching Assistant for "Experimental Physics for Geoscientists"   *Munich, Germany*

Ludwig-Maximilians-Universität Munich   *October 2022 - February 2023*

Teaching Tutorials, creating exam questions and supervising the exam

Workshops and Conferences

Cosmic Rays and Neutrinos in the Multi-Messenger Era   *Paris, France*

APC Laboratory   *December 2024*

Conference on Cosmic Rays and Neutrinos in the Multi-Messenger Era

ISSS-15 and IPELS-16   *Garching, Germany*

Max Planck Institute for Plasma Physics   *August 2024*

Conference on Space Simulations; Workshop on Interrelationship between Lab and Space Plasma

OpenGADGET3 User Meeting 2024   *Ljubljana, Slovenia*

Organized by Klaus Dolag and Stefano Borgani   *July-August 2024*

Contributed Talk

EAS Annual Meeting 2024   *Padova, Italy*

European Astronomical Society   *July 2024*

Contributed Talk

Austrian Early Career Conference 2024   *Salzburg, Austria*

Austrian Society for Astronnomy and Astrophysics   *March 2024*

Contributed Poster and Flash-Talk

Modern C++ Software Design   *Garching, Germany*

Leibniz Supercomputing Centre   *October 2024*

Concepts and the STL, C++ Templates, Class Design, Dynamic Polymorphism

Introduction to LRZ HPC Systems with Focus on CFD Workflows   *Garching, Germany*

Leibniz Supercomputing Centre   *October 2024*

Crash Course on HPC, CFD, SLURM

IMPRS-HD Summer School 2023   *Heidelberg, Germany*

Max Planck Institute for Astronomy   *September 2023*

Topic: "Unraveling Galaxy Evolution with JWST", lectures, excursions, hands-on-projects

Online Course: AI and Machine Learning   *coursera.org*

DeepLearning.ai   *October 2022*

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Service

Master Students Representative   *Munich, Germany*

University Observatory Munich   *October 2023 - October 2024*

- Representing Master's Students at the faculty meeting
- Organizing Institute Internal Student Conference: Master's Students Science Day
- Organizing orientation events and social gatherings for Master students

Skills

Programming	**Experienced**: Python, Julia, LaTeX | **Competent**: C++, bash | **Beginner**: IDL
Simulation Codes	**Beginner**: OpenGadget3, Athena++
Frameworks and Libraries	**Experienced**: Numpy, Matplotlib, Jupyter | **Competent**: Astropy, Scipy | **Beginner**: Tensorflow (Keras)
Languages	**Native**: German | **Fluent**: English (B2+/C1) | **Written**: Latin (Latinum)

Certificates will gladly be sent on request.

February 4, 2025, Munich