Raphael Julian Senghaas

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I'm a PhD student in physics at the University of Heidelberg in the group of Prof. Johannes Walcher. I'm working at the interface between Mathematics and Physics with focus on Supersymmetry, Mirror Symmetry, and Algebraic Geometry.

Education

Sep 2007 – Jun 2015	**Abitur**, *Elly-Heuss-Knapp-Gymnasium*, Heilbronn, *1.2*.
Oct 2015 – Mar 2019	**BSc Physics**, *University of Heidelberg*, *1.1*. Thesis supervisor: Prof. Johannes Walcher
Apr 2019 – Jan 2023	**MSc Physics**, *University of Heidelberg*, *1.0*. Thesis supervisor: Prof. Johannes Walcher
May 2023 –	**PhD Candidate in Mathematical Physics**, *University of Heidelberg*. Supervisor: Prof. Johannes Walcher

Teaching

2020	**Teaching Assistant**, *Linear Algebra I*. Prof. Anna Wienhard
2021	**Teaching Assistant**, *Algebra II*. Prof. Alexander Schmidt
2021	**Head Tutor**, *String Theory*. Prof. Johannes Walcher
2022	**Helpdesk Tutor**, *Analysis II & Linear Algebra II*.
2023	**Head Tutor**, *String Theory*. Prof. Johannes Walcher

Additional Experiences

Sep 2018 – Jun 2019	**Exchange Program**, *Tsinghua University*, Beijing.
2021	**Summer School**, *CIMPA School*, Hodge Theory and p-adic Hodge Theory.
2022	**Summer School**, *Domoschool*, Gauge Theory and the Langlands Program.
2022	**Workshop**, *Schöntalworkshop*, Renormalization and Effective Field Theory.
2023	**Talk**, *Thübingen University*, Exponential Networks for Linear Partitions.

Skills

Programming	Excellent knowledge of C++, Python and Linux Working with modern C++ libraries such as Asio, GiNaC and Arb Experience with Cuda, Nvptx and Assembly Comfortable with HTML, JavaScript and Latex
Languages	German (Native/C2) English (Fluent/C1) Mandarin Chinese (Pre-Intermediate/B1)