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# Curriculum Vitæ: Aaron Hofer

## Contact details

Pronouns: he/him/his

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## Education

- 10/2022 – PhD in Mathematics, University of Hamburg  
funded by the [Cluster of Excellence “Quantum Universe”](#)  
thesis: Defects in non-semisimple 3d topological field theory and 2d logarithmic conformal field theory  
supervisor: [Ingo Runkel](#)
- 10/2019 – 02/2022 MSc in Physics, University of Vienna  
[Vienna Master Class Mathematical Physics](#)  
thesis: TQFTs with additional structure  
supervisor: [Nils Carqueville](#)
- 10/2015 – 08/2018 BSc in Physics, University of Innsbruck  
thesis: Phononic excitations of nanoscale solids  
supervisor: [Oriol Romero-Isart](#)

## Preprints and theses

- 2024 November [Simons Lectures on Categorical Symmetries](#)  
(Notes for David Jordans lecture, with Jonte Gödicke and Anja Švraka),  
available at <https://arxiv.org/abs/2411.09082>
- 2024 May [Modular functors from non-semisimple 3d TFTs](#)  
(with Ingo Runkel), available at <https://arxiv.org/abs/2405.18038>
- 2022 February [TQFTs with additional structure](#)  
Master’s thesis, available at <https://theses.univie.ac.at/detail/62030/>

## Talks

- December 2024 [Creutzinger and Meusburger Group Seminar, Erlangen \(planned\):](#)  
CFT/TFT correspondence beyond semisimplicity
- November 2024 [TQFT Club Seminar, Lisbon Online \(planned\):](#)  
CFT/TFT correspondence beyond semisimplicity
- April 2024 [Carqueville group seminar, Vienna:](#)  
CFT/TFT correspondence beyond semisimplicity

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March 2024	<a href="#">Workshop on New Directions in Conformal Field Theory</a> , Hamburg: Modular functors from non-semisimple 3d TFTs
September 2023	<a href="#">QU Day 3 2023</a> , Hamburg: CFT/TFT correspondence beyond semisimplicity
April 2023	<a href="#">Seminar Quantum Physics and Geometry</a> , Hamburg: Topological defects in the 2d Ising CFT
March 2023	<a href="#">Carqueville group seminar</a> , Vienna: Lyubashenko's modular functor via holography
June 2022	<a href="#">Erlangen-Wien-Würzburg Meeting 2022</a> , Würzburg: Closed spin TQFTs in two dimensions

### Teaching experience

Winter term 2025	Exercise classes: Advanced algebra, University of Hamburg
Winter term 2024	Exercise classes: <a href="#">Mathematik I für Studierende der Geophysik /Ozeanographie, Meteorologie und Physik und der Computing in Science</a> , University of Hamburg
Summer term 2023	Exercise classes: <a href="#">Advanced algebra - homological algebra and representation theory</a> , University of Hamburg
Winter term 2022/23	Exercise classes: <a href="#">Hopf Algebras, quantum groups and topological field theory</a> , University of Hamburg
Winter term 2018/19	Tutor in Theoretical Physics I: Classical Mechanics, University of Innsbruck

### Attended Schools and Conferences

25.10.2024	<a href="#">17th Seminar on Conformal Field Theory</a>
10 – 14.06.2024	<a href="#">Categorical Symmetries in Quantum Field Theories</a> (School)
18 – 22.03.2024	<a href="#">Workshop on New Directions in Conformal Field Theory</a>
19.01.2024	<a href="#">16th Seminar on Conformal Field Theory</a>
08 – 10.11.2023	<a href="#">WPC Theoretical Physics Symposium</a>
04 – 08.09.2023	<a href="#">Categorical Symmetries in Quantum Field Theories</a> (School)
14 – 18.08.2023	<a href="#">Higher structures in Functorial Field Theory</a>
19 – 23.06.2023	<a href="#">Hausdorff School: “TQFTs and their connections to representation theory and mathematical physics”</a>
18 – 22.07.2022	<a href="#">Strings 2022</a> (student volunteer)
03 – 06.09.2020	<a href="#">Vienna Summer School 2020 on Gravitational Quantum Physics</a>

### Organisational work

Summer term 2024 – January 2023 –	Organiser <a href="#">Junior “Zentrum für Mathematische Physik” Seminar Cluster of Excellence “Quantum Universe” Research School Student Council</a>
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### Awards and prizes

In 2022, I received the [Alfred-Wehrl award](#) for outstanding Master students in theoretical or mathematical physics at the University of Vienna for my Masters's thesis.