

# Jonte Gödicke

Office: 335, Bundesstraße 55, Hamburg | [jonte.goedicke@uni-hamburg.de](mailto:jonte.goedicke@uni-hamburg.de) | +49 40 42838-5189  
<https://jonte-goedicke.com/> | [JonteGoedicke](#)

## Education

---

### PhD in Mathematics, University of Hamburg, Germany

- Cluster of Excellence Quantum Universe
- Adviser: Tobias Dyckerhoff

October 2021- Expected  
January 2025

### Master of Science in Mathematical Physics, University of Hamburg, Germany

2019-2021

- Master thesis: Examples of derived formal moduli problems
- Adviser: Julian Holstein
- Grade: 1.05

### Bachelor of Science in Physics, University of Hamburg, Germany

2015-2019

- Bachelor Thesis: Various topics in classical, bosonic, semiclosed string theory
- Advisor: Marco Zagermann
- Grade: 1.04

### Abitur, Gymnasium Osterholz-Scharmbeck, Germany

2007-2015

- Grade: 1.1

## Employment

---

### University of Hamburg, University research assistant, after finishing the PhD as a Post-doc associated with the CRC 1624 "Higher Structures, Moduli Spaces and Integrability"

Oktober 2024 - 2025

## Preprints

---

### An $\infty$ -category of 2-Segal Spaces

**Jonte Gödicke**, <https://arxiv.org/abs/2407.13357>

**Content:** We provide an equivalence between the  $\infty$ -category of algebra objects in  $\infty$ -categories of spans with a sub-category of the  $\infty$ -category of spans of 2-Segal objects.

### Simons Lectures on Categorical Symmetries,

### Lecture Notes: Applied Cobordism Hypothesis, Lecturer David Jordan

Aaron Hofer, Anja Švraka and **Jonte Gödicke**, <https://arxiv.org/abs/2411.09082>

**Content:** We provide lecture notes for the lecture "Applied Cobordism Hypothesis" given by David Jordan during the Global Categorical Symmetries School in Les Diableret in September 2023.

## Work in Progress

---

### Rigid 2-Segal spaces

**Jonte Gödicke**, <https://www.birs.ca/events/2024/5-day-workshops/24w5266/videos>

**Content:** We use  $(\infty, 2)$ -categorical techniques to classify rigid 2-Segal spaces. These can be interpreted as the universal example of a rigid convolution monoidal structure.

## Conference Talks

---

<b>Workshop Higher Segal Spaces and their Applications to Algebraic K-Theory, Hall Algebras, and Combinatorics,</b> <i>Banff International Research Station</i> , Title: Rigid 2-Segal Spaces	January 2024
<b>Global Categorical Symmetries School,</b> <i>Les Diablerets, Switzerland</i> , Gong Show Talk, Title: Towards Derived Turaev-Viro Theory	September 2023
<b>Summer School: Donaldson Thomas Invariants in Derived Symplectic Geometry,</b> <i>Aussois, France</i> , Title: Motivic DT Invariants after Kontsevich Soibelman	October 2022
<b>Summer School: Irregular Riemann Hilbert Correspondences,</b> <i>Aussois, France</i> , Title: Local Moduli for marked meromorphic flat bundles	September 2021

## Seminar Talks

---

<b>Higher Structures in Quantum Field Theory Seminar,</b> <i>Munich, Germany</i> , Title: Rigid Hall monoidal structures	May 2024
<b>Algebra and Topology Seminar,</b> <i>Kopenhagen, Denmark</i> , Title: Which 2-Segal objects are rigid?	May 2024
<b>Higher Structure Seminar,</b> <i>Hamburg, Germany</i> , Title: Rigid 2-Segal spaces	November 2023
<b>Higher Structure Seminar,</b> <i>Hamburg, Germany</i> , Title: Introduction to the Cobordism Hypothesis	November 2023
<b>Higher Structure Seminar,</b> <i>Hamburg, Germany</i> , Title: Symplectic Cohomology	May 2023
<b>ZMP Seminar,</b> <i>Hamburg, Germany</i> , Title: Categorification of Cluster algebras, with Merlin Christ	January 2022
<b>Higher Structure Seminar,</b> <i>Hamburg, Germany</i> , Title: Classical Hall Algebras	April 2021
<b>Higher Structure Seminar,</b> <i>Hamburg, Germany</i> , Title: Algebraic Stacks	May 2020
<b>Higher Structure Seminar,</b> <i>Hamburg, Germany</i> , Title: Deformation of Singularities	December 2019

## Organized Events

---

<b>Live Stream of the lecture by Prof. Dr. Denis-Charles Cisinski about Formalization of Higher Category Theory,</b> <i>Hamburg, Germany</i> Organized with Jonas Linssen and Markus Zetto	Fall 2023
<b>Mini Workshop on Higher Categorical Methods in Algebra and Geometry,</b> <i>Hamburg, Germany</i> Co-Organizer with Tobias Dyckerhoff, Matthew Habermann, and Angus Rush	March 2023
<b>PhD Pizza Seminar,</b> <i>Hamburg, Germany</i> Organized with Angus Rush, David Jaklitsch, Thomas Stempfhuber and Aaron Hofer	April 2022 - Fall 2023

## Teaching Experience

---

Tutor for Linear Algebra 1	Fall 2024
----------------------------	-----------

Tutor for Linear Algebra 1	Fall 2022
Tutor for Algebraic Topology 2	Spring 2022
Tutor for Mathematics for Physicists 3	Fall 2021
Student Tutor for Mathematics for Physicists 4	Spring 2021
Student Tutor for Algebra	Fall 2020
Student Tutor for Mathematics for Physicists 4	Spring 2020
Student Tutor for Mathematics for Physicists 3	Fall 2019
Student Tutor for Mathematics for Physicists 4	Spring 2019
Student Tutor for Mathematics for Physicists 3	Fall 2018
Student Tutor for Mathematics for Physicists 2	Spring 2018
Student Tutor for Theoretical Physics 2	Spring 2018
Student Tutor for Mathematics for Physicists 1	Fall 2017
Student Tutor for Theoretical Physics 1	Fall 2017
Student Tutor for Experimental Physics 2	Spring 2017

## Soft Skill Courses

---

<b>Hamburg Research Academy:</b> How to Advance Your Research Career and Get Funding	July 2024
<b>PIER Desy</b> Academic Writing Course	April-June 2024

## Further attended Mathematical Events

---

<b>Conference Higher Structures in Functorial Field Theories,</b> <i>Regensburg, Germany</i>	August 2023
<b>Hausdorff School: TQFT and their connections to Representation theory and Mathematical Physics,</b> <i>Bonn, Germany</i>	June 2023
<b>School: Finiteness Conjecture for Skein modules,</b> <i>Matemale, France</i>	May 2022
<b>Online Seminar: Champs et Homotopie en Géométrie algébrique,</b> <i>Toulouse, France</i>	Januar-May 2021
<b>String Theory Steilkurs,</b> <i>Hamburg, Germany</i>	April 2018

## Language

---

German Native speaker  
English, Fluently  
Latin, Advanced certificate