

Davide PASSARO

PERSONAL INFORMATION

PLACE AND DATE OF BIRTH: Bari, Italy, January 1, 1996
ADDRESS: Markelerbergpad 1503, 1105AW Amsterdam, The Netherlands
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EDUCATION

FROM SEPT. 2020 Ph.D. in THEORETICAL PHYSICS, Universiteit van Amsterdam, Amsterdam
Supervisor: Miranda Cheng

FROM SEPT. 2018 Master of Science in THEORETICAL PHYSICS, Uppsala University, Uppsala
To MAY 2020 Thesis: “[Model building on gCICYs](#)”
Advisor: Ass. Prof. Magdalena LAFORS, Robin SCHNEIDER
GPA: 5/5

FROM SEPT. 2015 Bachelor’s degree in PHYSICS, Università degli Studi di Milano, Milan
To JULY 2018 Graduating grade: 110/110 *cum laude*
Thesis: “[Laplacian ground state eigenvalues of regular polygons](#)”
Advisor: Prof. Luca Guido MOLINARI
GPA: 29.56/30

FROM SEPT. 2010 Diploma di Maturità, Liceo Scientifico Statale Leonardo Da Vinci, Milan
To JULY 2015 Graduating grade: 95/100 (top 13% of my class)

PUBLICATIONS

- Miranda C.N. Cheng, Sergei Gukov, Davide Passaro, Rak-Kyeong Song, Arnav Kabra. Machine learning Fermionic Forms. (To appear)
- Miranda C. N. Cheng, Ioana Coman, Piotr Kucharski, Davide Passaro, Gabriele Sgroi. 3D Modularity revisited. (To appear)
- Miranda C. N. Cheng, Ioana Coman, Davide Passaro, Gabriele Sgroi. Quantum modular \hat{Z}^G -Invariants. [arXiv:2303.03934 \[hep-th\]](https://arxiv.org/abs/2303.03934) (Accepted for publication with minor revisions on SIGMA)
- Miranda C. N. Cheng, Sungbong Chun, Boris Feigin, Francesca Ferrari, Sergei Gukov, Sarah M. Harrison, Davide Passaro. 3-Manifolds and VOA characters. [arXiv:2201.04640 \[hep-th\]](https://arxiv.org/abs/2201.04640) (Accepted for publication on Communications in mathematical Physics)
- Magdalena Larfors, Davide Passaro, Robin Schneider. Heterotic Line Bundle Models on Generalized Complete Intersection Calabi Yau Manifolds. [JHEP 05 2021\(105\)](https://doi.org/10.1007/JHEP05(2021)105), [arXiv:2010.09763 \[hep-th\]](https://arxiv.org/abs/2010.09763)

TALKS GIVEN

	Conference title	Talk title
Jul 27 2023	Exact results and holographic...	Reversing the orientation
Feb 27 2023	Learning Workshop on BPS States...	Logarithmic vertex operator...
Feb 15 2023	Geometry and automorphicity...	Logarithmic vertex operator...
Jun 29 2022	DRSTP Event Postgraduate AIO/OIO...	Convolutional neural networks...

video

CONFERENCES ATTENDED

May 29 - Jun 1 2023 [DRSTP Event Postgraduate AIO/OIO School](#) Callantsoog

March 30-31 2023	SC on New Structures in Low-Dimensional...	New York
Aug 1-5 2022	Making the bridge: Exploring new connections...	Cambridge (UK)
Jul 11-15 2022	String Math	Warsaw
May 2-5 2022	Strings and Geometry	Utrecht

COMPUTER SKILLS

Basic Knowledge: [LINUX](#), Git, bash scripting
 Intermediate Knowledge: Python, Sage-Math, C++, Mathematica, [L^AT_EX](#), Vim

TEACHING EXPERIENCE

Sep 2022-Aug 2023	Master thesis supervision	University of Amsterdam
Jun 2023	Reading course on Vertex Algebras	University of Amsterdam
Jun 2023	Numerical Methods for Statistical Physics	University of Amsterdam
Feb-Mar 2023	Advanced Quantum Field Theory	University of Amsterdam
Oct 2022	Seminars on Vertex Algebras	Academia Sinica
Jun 2022	Numerical Methods for Statistical Physics	University of Amsterdam
Feb-Mar 2022	Advanced Quantum Field Theory	University of Amsterdam
Feb-Mar 2021	Advanced Quantum Field Theory	University of Amsterdam

LANGUAGES

Mothertongue: [ITALIAN](#), [ENGLISH](#)
 Basic Knowledge: [SWEDISH](#)

OTHER INTERESTS AND ACTIVITIES

Technology, Open-Source programming,
 World news, Kitesurfing, Traveling