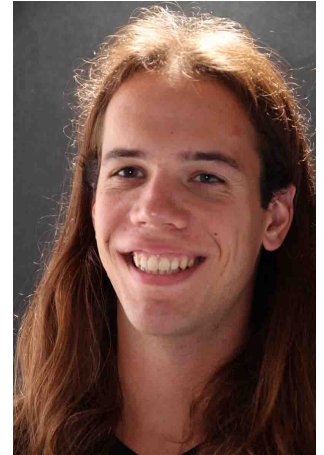


Curriculum Vitae

Personal information

Name **Wasserman, Thomas Anton**
University College Annexe,
Percy 12
Address Staverton Road
OX2 6XL, Oxford
England
Telephone +44-7-450331812 (*mobile*)
Email wasserman@maths.ox.ac.uk
Nationality Dutch
Date of birth 20th of August 1987
Gender Male



Education

Program	DPhil. in Mathematics
Institution	University of Oxford
Period	2012 - present
Advisor	Prof. Christopher Douglas
Thesis Title	<i>“A Reduced Tensor Product of Braided Fusion Categories over a Symmetric Fusion Category”</i>
Programs	Master Mathematical Sciences Master Theoretical Physics
Institution	Universiteit Utrecht
Period	2008 - 2012
Combined Thesis	<i>“Orbifold Conformal Field Theory and One-Loop Self-Energy in the $S_N\mathbb{R}^D$ Orbifold Sigma Model”</i>
Grade	8.5/10
Advisors	Dr. André Henriques Prof. Gleb Arutyunov
GPA	4.0
Programs	Bachelor Mathematics Bachelor Physics and Astronomy
Institution	Universiteit Utrecht
Period	2005 - 2009
Thesis	<i>“Gravitational Waves from Bubble Collisions during First-Order Phase Transitions”</i>
Grade	9/10
Advisor	Dr. Tomislav Prokopec
Program	Preparatory Scientific Education (Gymnasium): Nature and Technology and Nature and Health programmes and Latin
Institution	Gymnasium Haganum (The Hague)
Period	1999 - 2005

Academic Interests

Interests Topological Quantum Field Theories, Mathematical Physics with emphasis on mathematical treatment of Quantum Field Theories, Differential Geometry, Algebraic Topology, Floer Theory, Topological States of Matter.

Teaching experience

Title	Junior Lecturer in Pure Mathematics
Employer	University College, University of Oxford
Period	2015 - 2017
Description	Tutor for prelims tutorials for linear algebra and groups and group actions.
Title	Tutor for the Williams-Exeter Visiting Student Programme
Employer	Exeter College, University of Oxford
Period	2015
Description	One-on-one tutorials with an American exchange student on geometry of surfaces.
Title	Class tutor
Employer	Mathematical Institute, University of Oxford
Period	2014 - 2016
Description	Class tutor for the fourth year courses on homological algebra, computational algebraic topology, and Lie groups.
Title	Teaching assistant
Employer	Mathematical Institute, University of Oxford
Period	2012 - 2014
Description	Teaching assistant for the third year courses on topology and groups and geometry of surfaces, and fourth year courses on algebraic topology, homological algebra, and Lie groups.
Title	Student assistant
Employer	Universiteit Utrecht
Period	2008 - 2012
Description	Teaching assistant for the second year courses on analysis and multidimensional real analysis, third year courses on functional analysis and smooth manifolds, and for the master course on Riemann surfaces.
Title	Student assistant
Employer	Universiteit Utrecht
Period	2009 - 2010
Description	Managing the evaluation of the third year courses in the physics bachelor's program.

Awards and Scholarships

2016	Departmental Teaching Award from the Mathematical Institute of the University of Oxford
2013	Scholarship from Prins Bernhard Cultuurfonds for a DPhil. in Mathematics at the University of Oxford
2012	Scholarship from the Engineering and Physical Sciences Research Council for a DPhil. in Mathematics at the University of Oxford
2012	Scholarship from Dr. Hendrik Muller Vaderlandsch Fonds for a DPhil. in Mathematics at the University of Oxford
2012	Funding from Stichting Vreedfonds for a DPhil. in Mathematics at the University of Oxford

- 2012 **Funding from Fundatie Vrijvrouwe van Renswoude** for a DPhil. in Mathematics at the University of Oxford
- 2010 **Second place in the NNV's Bachelor Thesis contest** at FYSICA 2010
- 2009 **Scholarship from the Swiss government** for study at the ETH Zürich for 5 months

Masterclasses, Conferences, Talks.

- 2017 "*Geometry Seminar*", Plymouth University, **Invited speaker**.
- 2017 "*Topology Seminar*", University of Oxford, **Invited speaker**.
- 2017 "*LMS-CMI Research School: Algebraic Topology of Manifolds*", Oxford.
- 2017 "*Young Topology Meeting*", Stockholm, **Contributed a talk**.
- 2017 "*Geometry and Quantum Theory Colloquium*", Den Dolder (Joint seminar for Dutch universities), **Invited speaker**.
- 2017 "*Groups, Manifolds and K-Theory*", Münster.
- 2016 "*Clay Mathematics Workshops and Conferences*", Oxford.
- 2016 "*Jóvenes Investigadores X*" Workshop, Complutense University Madrid. **Invited speaker**.
- 2016 "*Young Topology Meeting*", Copenhagen. **Contributed a talk**.
- 2016 "*Michael Weiss' Birthday Conference*", Lisbon.
- 2016 "*European Talbot*", Winterberg. Topic: Topological Quantum Field Theories. Mentors: Chris Schommer-Pries and Peter Teichner. **Contributed a lecture**.
- 2016 Visited Stanford University. Hosts: Ralph Cohen and Søren Galatius. **Contributed a talk in the Topology Progress Seminar**.
- 2016 "*OAC Manifolds Conference*", Oxford.
- 2015 "*Higher Structures in Geometry and Physics*" workshop, Max Planck Institute for Mathematics, Bonn.
- 2015 "*Clay Mathematics Workshop on Algebraic Topology*", Oxford.
- 2015 "*Clay Mathematics Conference*", Oxford.
- 2015 "*Graduate Workshop on Topological Quantum Field Theory*", Simons Centre, Stony Brook, NY.
- 2015 "*Conference on Topology and Geometry*", Hausdorff Institute for Mathematics, Bonn.
- 2015 "*Young Topology Meeting*", Lausanne. **Contributed a talk**.
- 2015 "*Homotopy Theory, Manifolds, and Field Theories*", Bonn.
- 2014 "*Topological quantum field theories, quantum groups and 3-manifold invariants Masterclass*", Copenhagen.
- 2014 "*Young Topology Meeting*", Copenhagen. **Contributed a talk**.
- 2014 "*Algebraic Topology*" program, Mathematical Sciences Research Institute, Berkeley, CA.
- 2014 "*Reimagining the foundations of algebraic topology*" workshop, MSRI, Berkeley, CA.
- 2013 "*Clay Mathematics Institute conference and workshops*", Oxford.
- 2013 "*Young Researchers in Mathematics*", Edinburgh.
- 2013 "*Categorification and Link Homology* short course and workshop, Louvain-La-Neuve.
- 2013 "*Young Topology Meeting*", Imperial College, London.
- 2013 "*Higher Structure 2013*" workshop, Cambridge.
- 2012 "*Aspects of Topology*", Oxford.
- 2012 "*Quantum Gravity in Paris*", Paris.
- 2012 "*Higher Geometric Structures along the Lower Rhine*", Bonn.
- 2011 "*Higher Structures in Topology and Geometry IV*", Göttingen.
- 2010 "*Geometry of gauge theories and the geometric quantization Masterclass*" at the University of Amsterdam.

Articles

2017	<i>The Symmetric Tensor Product on the Drinfeld Centre of a Symmetric Fusion Category.</i> ArXiv pre-print: 1710.06461.
2017	<i>The Drinfeld Centre as 2-Fold Monoidal Category.</i> ArXiv pre-print: 1711.03394
2017	<i>Drinfeld Centre-Crossed Braided Tensor Categories.</i> Thesis Chapter, in preparation as pre-print.
2017	<i>From Braided Fusion Categories to Crossed Braided Fusion Categories.</i> Thesis Chapter, in preparation as pre-print.
In prep.	<i>The Reduced Tensor Product and Applications.</i> Based on Thesis Chapter.

Current Projects

Topic	<i>Classification of Three-Dimensional Once-Extended G-Equivariant Topological Quantum Field Theories.</i>
Topic	<i>Modular Objects in the 2-Category of Enriched Categories.</i>
Topic	<i>Orbifolding for Three-Dimensional Once-Extended Topological Quantum Field Theories.</i>
Topic	<i>Conditions for the Existence of Minimal Modular Extensions.</i>

Current Collaborations

Topic	<i>The Landau-Ginzburg Conformal Field Theory Correspondence from a Bicategory Viewpoint</i>
Collaborator	Ana Ros Camacho, currently Marie Skłodowska-Curie Individual Fellow at Utrecht University.
Topic	<i>From Partially Defined to Lax Topological Quantum Field Theories.</i>
Collaborator	Ángel González Prieto, currently PhD student at Complutense University Madrid.
Topic	<i>The Reduced Tensor Product, Modular Data, and the Search For Modular Tensor Categories.</i>
Collaborator	Joost Slingerland, currently Lecturer in Physics at the National University of Ireland, Maynooth.
Topic	<i>Finding Fully Extended Two-Dimensional G-Equivariant Topological Quantum Field Theories.</i>
Collaborator	Kursat Sozer, currently PhD student at Indiana University.
Topic	<i>Monoidal Kan Extensions</i>
Collaborator	Mark Penney, currently postdoctoral researcher at the Max Planck Institute for Mathematics, Bonn.
Topic	<i>Homology Stability and Topological Quantum Field Theories</i>
Collaborator	Renee Hoekzema, currently DPhil student at the University of Oxford.

Organizational Experience

Period	2007 - 2012 (one week every summer)
Employer	Anneke Kerkhof Beeldend (Expressive) Management (www.anneke-kerkhof.com)

	Description	Co-organizing painting holidays. Organizing, catering and managing inventory and shopping lists for professional painting holidays, cooking three-course menus for large groups.
	Period	2005-2011
	Activity	Various Committees for the study-association A-Eskwadraat
	Description	Participated in three committees, the “Ouderdag” (organizing an opportunity for parents to experience studying for a day), “AxiCie” (organizing various fun and relaxing activities for other students) and “Adviesraad” (advisory council for the board), within the study-association A-Eskwadraat.
Extracurricular Activities		
	Period	2006-2011
	Activity	Member of various co-determination councils at Utrecht University.
	Period	2006-2010
	Activity	Mentor during Bachelor and Master Introduction at Utrecht University
	Description	Helping new students feel at home at the university.
Skills		
Wolfram Mathematica		Proficient.
C++		Basic.
L ^A T _E X		Highly Proficient.
Languages		
	Dutch	Native tongue
	English	Highly proficient
	German	Basic reading comprehension
	French	Basic reading comprehension
	Italian	Basic cursing