

DANIEL TUBBENHAUER

PERSONAL DATA

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Position Senior research fellow

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EMPLOYMENT

Senior research fellow
Jul.2021–yy THE UNIVERSITY OF SYDNEY
Sydney, Australia

Fellowship sponsored by the HCM
Jan.2021–
Jun2021 HAUSDORFF CENTER FOR MATHEMATICS (HCM)
Bonn, Germany

Lecturer
Jan.2018–
Dec.2020 UNIVERSITÄT ZÜRICH
Zürich, Switzerland

Postdoctoral researcher
Sep.2015–
Dec.2017 HAUSDORFF CENTER FOR MATHEMATICS (HCM)
Bonn, Germany

Postdoctoral researcher
Nov.2013–
Jan.2015
CENTRE FOR QUANTUM GEOMETRY OF MODULI SPACES (QGM)
Aarhus, Denmark

Postdoctoral researcher
Aug.2013–
Oct.2013 GEORG–AUGUST–UNIVERSITÄT GÖTTINGEN
Göttingen, Germany

OTHER POSITIONS—FUNDED BY GRANTS

Feb.2019–
Mar.2019 MATHEMATICAL SCIENCES INSTITUTE (MSI)

Invited Researcher Canberra, Australia
Funded by a grant of the Australian National University (ANU)

Invited Researcher *Feb.2015–* UNIVERSITÉ CATHOLIQUE DE LOUVAIN
Aug.2015
Louvain-la-Neuve, Belgium
Funded by a grant of the Deutsche Forschungsgemeinschaft (DFG)

Invited Researcher *Nov.2014–* TATA INSTITUTE OF FUNDAMENTAL RESEARCH (TIFR)
Dec.2014
Mumbai, India
Funded by a grant of the Danish National Research Foundation (DNRF)

EDUCATION

Ph.D. in mathematics *Apr.2010–* Georg–August-Universiät Göttingen
Aug.2013
Graduiertenkolleg GRK 1493
Thesis: *Categorification and applications in topology and representation theory*
Advisers: Prof.Dr. Thomas SCHICK & Prof.Dr. Marco A. MACKAAY
Defense: 02.Jul.2013

Diplom (univ.) in mathematics *May.2006–* Georg–August-Universiät Göttingen
Mar.2010
Graduiertenkolleg GRK 1493
Advisers: Prof.Dr. Thomas SCHICK & Prof.Dr. Andreas THOM

PUBLICATIONS

31 publ. The list of my 31 (~474 citation on google scholar) publications is a separate file; or can be found online: <http://www.dtubbenhauer.com/preprint.html> or <http://www.dtubbenhauer.com/publist.pdf>

SCIENTIFIC OUTREACH

Invited speaker ~73 talks, see <http://www.dtubbenhauer.com/talks.html>
Organizer Three conferences, see <http://www.dtubbenhauer.com/meet.html>
Conferences Several, see <http://www.dtubbenhauer.com/meet.html>
Research visits Several, see <http://www.dtubbenhauer.com/meet.html>
Teaching ~24 classes given, see <http://www.dtubbenhauer.com/teaching.html>

 STUDENTS

<i>Current</i>	I am the primary supervisor of 1 master student (they will finish 2022)
<i>Former Ph.D.</i>	I was the primary supervisor of 1 Ph.D. student (they finished in 2021), and I was the secondary supervisor of 1 Ph.D. student (they finished in 2017)
<i>Former bachelor and master</i>	I was the primary supervisor of 3 master students (all finished in 2021), and I was the secondary supervisor of 3 master and 2 bachelor students

SCIENTIFIC INTERESTS

<i>Main</i>	Higher representation theory (e.g. categorification) Higher dimensional category theory (e.g. categorical algebra)
<i>Second</i>	Representation theory (e.g. classical, quantum and modular) Low-dimensional topology (e.g. quantum invariants, knot homologies) Combinatorics (e.g. Kazhdan–Lusztig combinatorics) Applications of the former in geometry (e.g. geometry of Grassmannians) Applications of the former in cryptography (e.g. via representations of monoids)

REFEREE SUGGESTIONS

<i>Colleague</i>	Prof.Dr. Mikhail KHOVANOV khovanov@math.columbia.edu Columbia University, New York City, United states
<i>Colleague</i>	Prof.Dr. Jonathan KUJAWA kujawa@math.ou.edu University of Oklahoma, Oklahoma, United States
<i>Colleague</i>	Prof.Dr. Anthony M. LICATA anthony.licata@anu.edu.au Australian National University (ANU), Canberra, Australia
<i>Coauthor & former adviser</i>	Prof.Dr. Marco A. MACKAAY mmackaay@ualg.pt Universidade do Algarve, Faro, Portugal
<i>Colleague</i>	Prof.Dr. Andrew MATHAS andrew.mathas@sydney.edu.au University of Sydney, Sydney, Australia
<i>Coauthor</i>	Prof.Dr. Volodymyr MAZORCHUK mazor@math.uu.se Uppsala University, Uppsala, Sweden
<i>Former adviser</i>	Prof.Dr. Thomas SCHICK schick@uni-math.gwdg.de Georg–August–Universiät Göttingen, Göttingen, Germany
<i>Coauthor</i>	Prof.Dr. Catharina STROPPEL stroppel@math.uni-bonn.de Universiät Bonn, Bonn, Germany
<i>Coauthor</i>	Prof.Dr. Pedro VAZ pedro.vaz@uclouvain.be Université Catholique de Louvain, Louvain-La-Neuve, Belgium

FURTHER INFORMATION

<i>Computer skills</i>	MATHEMATICA	· Advanced+
	SAGE/Python	· Advanced+
	Magma	· Advanced+

HTML	· Advanced
C and C++	· Intermediate
JAVA	· Intermediate
Other computer algebra systems	· Basic

More outreach

MathSciNet	· ID 1067860, ~181 citations
Google scholar	· ~474 citations
Research gate	· ~364 citations
Orchid	· ID 0000-0001-7265-5047
Youtube	· ~4000 subscribers

Professional membership

American Mathematical Society	· Member
European Mathematical Society	· Member
Deutsche Mathematiker Vereinigung	· Member

Languages

German	· Mother-tongue
English	· Fluent
French	· Very basic
Latin	· Very basic
Danish	· Very basic



Daniel Tubbenhauer (digital signature); April 27, 2022