

Felix S. Küng

RESEARCH FELLOW · ALGEBRAIC GEOMETRY

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"I like the rain, it makes flowers grow and I don't mind getting wet."

Education

Phd

1.10.2018-4.7.2022

Thesis: *Twisted Hodge Diamonds give rise to new Non-Fourier-Mukai functors*

Advisor: Dr. Alice Rizzardo, Second Advisor Dr. John Woolf

University of Liverpool

United Kingdom

Msc

1.4.2015-2.11.2017

Master Thesis: *Structures on the category of N -complexes*

Advisor Dr. Olaf Schnürer, Second Advisor Prof. Catharina Stroppel

Grade: very good

University of Bonn

Germany

Bsc

1.10.2011-1.10.2014

Bachelor Thesis: *Algebraisches K_0 und der Satz von Swan*

Advisor: Prof. Andreas Rosenschon

Grade: very good

University of Munich

Germany

Matura

2002-2010

BG/BRG Freistadt

Austria

Experience

Research Fellow

SINCE APRIL 2022

Universite libre de Bruxelles

Belgium

Teaching assistant

2018-2022

University of Liverpool

UK

Differential Geometry, Metric Spaces, Linear Statistical Models, Networks in Theory and Practice, Chaos Theory, Mathematical Models: Microeconomics & Population Dynamics, Probabilistic Models and Number Theory.

Tutor for Linear Algebra I and II

2016-2018

University of Bonn

Germany

Tutor for Computer-Architecture and Operating Systems

2013-2016

University of Munich

Germany

Organisation Member for International Conferences

2009-2016

DEXA Society

Austria

DEXA 2009 in Linz (Austria), DEXA 2010 in Bilbao (Spain), DEXA 2011 in Toulouse (France), DEXA 2012 in Vienna (Austria), DEXA 2013 in Prague (Czech Republic), DEXA 2014 in Munich (Germany), DEXA 2015 in Valencia (Spain), DEXA 2016 in Porto (Portugal)

Conferences and Research Visits

Introductory Workshop: Noncommutative Algebraic Geometry

05.02.2023-08.02.2024

Talk: TBA

SL-Math, Berkeley

United States

Brussels Summer School of Mathematics

28.08.2023-1.09.2023

Talk: Homology and Homotopy

Brussels

Belgium

Higher algebraic Structures in Representation Theory and Geometry

14.08.2023-18.08.2023

Talk: Twisted Hodge diamonds give rise to non-Fourier-Mukai functors

Nordfjordeid

Norway

Algebraic structures in Enumerative Geometry

17.04.2023-22.04.2023

Talk: Quantization of Vertex algebras

Skye

UK

Research Visit

13.03.2023-17.03.2023

Talk: Twisted Hodge diamonds give rise to non-Fourier-Mukai functors

Liverpool

UK

The Fourth W. Killing and K. Weierstrass Colloquium

18.07.2022-22.07.2022

Talk: Twisted Hodge diamonds give rise to non-Fourier-Mukai functors

Gdansk

Poland

Invariants in Algebraic Geometry

16.05.2022-20.05.2021

Talk: Twisted Hodge diamonds give rise to non-Fourier-Mukai functors

Dijon

France

Calf Seminar

08.12.2021

Talk: Twisted Hodge diamonds give rise to non-Fourier-Mukai functors

Cambridge

UK

Research Visit

01.11.2021-10.11.2021

Talks:

\mathcal{A}_∞ -structures and their obstructions

Twisted Hodge-diamonds give rise to non-Fourier-Mukai functors

Oslo

Norway

GAEL XXVIII

05.07.2021-09.07.2021

Talk: Twisted Hodge diamonds give rise to non-Fourier-Mukai functors

Loughborough

UK

The Geometry of Derived Categories

09.09.2019-13.09.2019

Poster

Liverpool

UK

Derived Categories, Moduli Spaces and Deformation Theory

24.07.2019-28.07.2019

Poster

Cetraro

Italy

Winterschool on Categorification, representation theory and symplectic geometry

20.11.2017-24.11.2017

Poster

Bonn

Germany

Publication List

Algebraic K_0 for non-pointed Categories

ARXIV PREPRINT

23. May 2023

arxiv:2305.14054

Twisted Hodge Diamonds give rise to Non-Fourier-Mukai functors

ACCEPTED AT THE JOURNAL OF NON-COMMUTATIVE GEOMETRY

2. July 2022

arXiv:2207.03363

Twisted Hodge Diamonds give rise to Non-Fourier-Mukai functors

PHD THESIS

7. March 2022

University of Liverpool

Extracurricular Activity

President of the SIAM student chapter Liverpool

2019-2021

University of Liverpool

UK

Member of the PGR Student Staff Relation Committee

2018-2019

University of Liverpool

UK

Poll watcher

2011-2015

Various Elections

Austria

National service

2010-2011

Seniorenzentren Linz

Austria

Skills

Programming LaTeX, C/C++, JAVA, Python, R, SQL

Programs Sage, Office (i.e: Access, Excel, Word, Powerpoint...)

Languages German (Mothertongue), English C2, Spanish B2, French A2, Akkadian

Hobbies

Environmental Conservation, Drawing, Lego, Mountaineering, Sumerology, Woodworking

Attended Conferences, Workshops and Summer Schools

Conference *Categories and stacks in algebraic geometry and algebraic topology*
CATS 7

16.10.2023-21.10.2023

CIRM, Marseille

France

Conference *Hopf Days in Brussels*

04.09.2023-06.09.2023

Brussels

Belgium

Workshop on *Motives in Moduli and Representation Theory*

10.07.2023-14.07.2023

Nijmegen

Netherlands

Conference on *Derived Categories, Moduli Spaces, and Counting Invariants*

03.07.2023-07.07.2023

London

UK

Workshop on *Spectra, Triangles, and higher Structures*

05.12.2022-09.12.2022

Bonn

Germany

Conference on *Representation Theory and Triangulated Categories*

26.09.2022-01.10.2022

Paderborn

Germany

Conference on *Noncommutative Shapes*

12.09.2022-16.09.2022

Antwerp

Belgium

Conference on *Six Functors Formalism and Motivic Homotopy Theory*

20.09.2021-25.09.2021

Milan

Italy

Summerschool on *Derived and Triangulated Categories*

13.08.2020-27.08.2020

Berlin

Germany

Summer Camp on *Bridgeland Stability Conditions*

02.08.2021-06.08.2020

Berlin

Germany

Summer Camp on *Derived Categories, Stability Conditions and Deformations*

17.08.2020-21.08.2020

Berlin

Germany

Symposium on *Ocean Cleanup*

16.12.2019-19.12.2019

Liverpool

UK

GLEN meeting *Singularities and Derived Categories*

13.11.2019-14.11.2019

Sheffield

UK

GLEN meeting *Homological Mirror Symmetry*

28.02.2019-01.02.2019

Manchester

UK

Workshop on *Enhancing Representation Theory, Noncommutative Algebra and Geometry*

31.01.2019-01.02.2019

Edinburgh

UK

Conference: *Finite dimensional Algebras, Homotopy Theory, and Geometry*

13.12.2018-14.12.2018

Glasgow

UK

Summerschool on Geometric Representation Theory

09.06.2018-13.06.2018

IST
Austria

Workshop on A_∞ -Structures in Geometry and Representation Theory

04.12.2017-08.12.2017

Bonn
Germany

Workshop on Categorification, Representation Theory and Symplectic Geometry

27.11.2017-01.12.2017

Bonn
Germany

Conference on Triangulated Categories and Geometry

15.05.2017-15.05.2017

Bielefeld
Germany

Conference Young Women in Representation Theory

23.06.2016-25.06.2016

Bonn
Germany

Workshop on Categorification

16.05.2016-20.05.2016

Bonn
Germany

Conference Panorama of Mathematics

21.10.2015-23.10.2015

Bonn
Germany

Introductory school on Moduli Spaces

28.09.2015-08.10.2015

Bonn
Germany