

# TIMOTHY DE DEYN

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## PERSONAL DATA

Nationality Belgian, British  
Languages English (native, mother tongue), Dutch (native, father tongue), French (conversational)

## EMPLOYMENT

Jan 2024 - UNIVERSITY OF GLASGOW  
Present Research Associate  
Mentor: Prof. dr. Michael Wemyss

## EDUCATION

Nov 2019 - VRIJE UNIVERSITEIT BRUSSEL  
Oct 2023 Ph.D. in Mathematics  
Title: Categorical resolutions of filtered schemes  
Supervisor: Prof. dr. Michel Van den Bergh  
Grant: Research Foundation - Flanders (FWO)

Sep 2017 - VRIJE UNIVERSITEIT BRUSSEL  
Jul 2019 Master of Science in Mathematics  
*Summa cum laude*

Sep 2016 - VRIJE UNIVERSITEIT BRUSSEL  
Jul 2017 Bachelor of Science in Mathematics  
*Summa cum laude*

Sep 2012 - VRIJE UNIVERSITEIT BRUSSEL  
Jul 2015 Bachelor of Science in Physics and Astronomy  
*Summa cum laude*

## PUBLICATIONS & PREPRINTS

- [1] *A note on affine cones over Grassmannians and their stringy E-functions*, Proc. Amer. Math. Soc. 151 (2023), no. 6, 2363–2373.
- [2] *Categorical resolutions of filtered schemes*, J. Noncommut. Geom. (2024), published online first.
- [3] *Approximability and Rouquier dimension for noncommutative algebras over schemes*, joint with P. Lank and K. Manali-Rahul, arXiv:2408.04561.
- [4] *Descent and generation for noncommutative coherent algebras over schemes*, joint with P. Lank and K. Manali-Rahul, arXiv:2410.01785.
- [5] *Descending strong generation in algebraic geometry*, joint with P. Lank and K. Manali-Rahul, arXiv:2502.08629.
- [6] *Regularity and bounded t-structures for algebraic stacks*, joint with P. Lank, K. Manali-Rahul and F. Peng, arXiv:2504.02813.
- [7] *Quasi-perfect blowups detect regularity*, joint with P. Lank and K. Manali-Rahul, arXiv:2508.10845.
- [8] *Re-framing the classification of ideals in noncommutative tensor-triangular geometry*, joint with S. K. Miller, arXiv:2510.23767.

- [9] *Measuring birational derived splinters*, joint with P. Lank, K. Manali-Rahul and S. Venkatesh, arXiv:2510.26648.
- [10] *Nonexistence of singly compactly generated t-structures for schemes*, joint with A. Bhaduri, M. Hrbek, P. Lank and K. Manali-Rahul, arXiv:2511.01622.

## AWARDS AND GRANTS

- 2019-2023 Ph.D. Fellowship fundamental research  
*Personal four-year Ph.D. research grant of the national research foundation FWO.*
- 13 Dec 2019 Prijs van de wetenschappen'  
*Prize awarded to the best graduating student of the faculty of Sciences and Bioengineering Sciences.*

## TEACHING

### Teaching Assistant for the following courses

- Spring 2020-2023 Introduction to Group Theory  
*Inleiding tot de groepentheorie*, 1st year mathematics students
- Spring 2020 & Ordinary Differential Equations
- Fall 2020-2022 'Gewone differentiaalvergelijkingen', 2nd year mathematics students
- Fall 2020-2022 Differential Geometry  
*Differentiaalmeetkunde*, 2nd year mathematics students
- Fall 2020-2022 Mathematics: Complements  
*Aanvullingen Wiskunde*, 2nd year Chemistry and Geography students
- Fall 2019 Engineering Skills: Mathematical techniques  
*Ingenieursvaardigheden: Wiskundige Technieken*, 1st year engineering students

### Miscellaneous

- 2017 - 2019 Tutor at Solutio  
*Tutoring secondary school students in mathematics, physics, chemistry and biology.*
- 2017 - 2018 Tutor at Vrije Universiteit Brussel  
*Tutoring the class of first year mathematics and physics students at the Vrije Universiteit Brussel, helping them with their mathematics courses, and introducing them to other aspects of studying at university.*

## TALKS

### Conference, Colloquium and Workshop talks

- 15 Apr 2025 GLEN workshop, Sheffield, United Kingdom
- 20 Dec 2023 Young Scholar Day 2023, Brussels, Belgium
- 25 Nov 2022 The Antwerp Algebra Colloquium, Antwerp, Belgium
- 13 Jul 2022 The Fourth W. Killing and K. Weierstrass Colloquium, Gdańsk, Poland

### Seminar talks

- 8 May 2025 Seminari di geometria algebrica complessa, Università degli Studi di Milano
- 27 Feb 2025 Algebraic Geometry Seminar, University of Liverpool
- 22 Mar 2024 Belgian-Dutch Junior Algebraic Geometry Seminar, Universiteit Antwerpen
- 20 Feb 2024 Algebraic Geometry Seminar, University of Glasgow
- Spring 2020 In the Pursuing stacks seminar, online

## PROFESSIONAL ACTIVITIES

### Research visits/stays

- Dec 2019 Max Planck Institute for Mathematics, Germany, hosted by Michel Van den Bergh (two weeks)

### Events and seminars co-organised

Jan 2025 - Present	Derived categories and noncommutative enthusiasts (D.A.N.C.E.) seminar <i>Online seminar organised with Anirban Bhaduri, Pat Lank and Kabeer Manali-Rahul.</i>
8-9 May 2024	Algebraic Geometry Days in Glasgow <i>Two days of talks organised with Inder Kaur, Emma Lepri, Matthew Pressland and Franco Rota.</i>
Spring 2020	Pursuing stacks <i>Co-organised a reading group following Jarod Alper's course on stacks.</i>

### Committees

2020 - 2023	Member of the Student Disciplinary Committee, VUB
2020 - 2023	Representative of the teaching assistants in the Mathematics Education council, VUB
2017 - 2019	Student representative in the Mathematics Education council, VUB
2014 - 2015	Student representative in the Physics and Astronomy Education council, VUB

### Other

- Peer review for JPAA
- Reviewer for Mathematical Reviews
- Reviewer for zbMATH

## CONFERENCES, WORKSHOPS AND SCHOOLS ATTENDED

1 - 5 Sep 2025	Motives, equivariant topology, and tt-geometry, Warwick, United Kingdom
28 - 29 Aug 2025	The Legacy of Peter Gabriel, Bielefeld, Germany
7 - 11 Jul 2025	Workshop on derived categories, noncommutative geometry and deformation theory, Cetraro, Italy
14 - 15 Apr 2025	GLEN workshop, Sheffield, United Kingdom
7 - 11 Apr 2025	Recent Developments in Algebraic K-Theory, Warwick, United Kingdom
9 - 10 Dec 2024	GLEN workshop, Glasgow, United Kingdom
28 - 30 Oct 2024	Tale of Geometries, Brussels, Belgium
23 - 27 Sep 2024	MFO-RIMS Tandem Workshop: Algebraic Geometry and Noncommutative Projective Varieties, Oberwolfach, Germany
16 - 20 Sep 2024	School on Deformation Theory IV, Rome, Italy
8 - 12 Apr 2024	Recent Developments in Noncommutative Algebraic Geometry, Berkeley, United States of America
26 - 30 Sep 2022	Representation Theory and Triangulated Categories, Paderborn, Germany
12 - 16 Sep 2022	Noncommutative Shapes, Antwerp, Belgium
5 - 6 Sep 2022	Algebra Days in Paris, Paris, France
31 Aug - 2 Sep 2022	Higher structures in deformation theory, Freiburg, Germany
30 Jul - 5 Aug 2022	Derived Categories, Moduli Spaces, and Hyperkähler Varieties, Ann Arbor, United States of America
18 - 22 Jul 2022	The Fourth W. Killing and K. Weierstrass Colloquium, Gdańsk, Poland
16 - 20 May 2022	Invariants in Algebraic Geometry, Dijon, France
14 - 16 Dec 2021	Arithmetic and geometry of varieties with trivial canonical bundle, Oslo, Norway
13 - 17 Sep 2021	Summer School on Derived and Triangulated Categories, Wuppertal, Germany
9 - 13 Sep 2019	The Geometry of Derived Categories, Liverpool, United Kingdom