

# TIMOTHY DE DEYN

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## PERSONAL DATA

Birth 20 September 1994, Belgium  
Nationality Belgian, British  
Languages English (native, mother tongue), Dutch (native, father tongue), French (conversational)

## EMPLOYMENT

JAN 2024 - UNIVERSITY OF GLASGOW  
PRESENT **Research Associate**  
Mentor: 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**

SEP 2016 - VRIJE UNIVERSITEIT BRUSSEL  
JUL 2017 **Bachelor of Science in Mathematics**

SEP 2012 - VRIJE UNIVERSITEIT BRUSSEL  
JUL 2015 **Bachelor of Science in Physics and Astronomy**

## PUBLICATIONS, PREPRINTS & WORK IN PREPARATION

### Publications & Preprints

- [1] *A note on affine cones over Grassmannians and their stringy E-functions*, Proc. Amer. Math. Soc. 151 (2023), no. 6, pp. 2363–2373.
- [2] *Categorical resolutions of filtered schemes*, accepted for publication in J. Noncommut. Geom. (2024), pp. 63, arXiv: 2309.08330.

## AWARDS AND OTHER RECOGNITIONS

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

- 20 Dec 2023 Young Scholar Day 2023, Brussels, Belgium  
*Title: Categorical resolutions of filtered schemes.*
- 25 Nov 2022 The Antwerp Algebra Colloquium, Antwerp, Belgium  
*Title: An introduction to (categorical) resolutions of singularities.*
- 13 July 2022 The Fourth W. Killing and K. Weierstrass Colloquium, Gdańsk, Poland  
*Title: Affine cones over Grassmanians and their stringy E-functions.*

### Seminar talks

- 22 March 2024 In the Belgian-Dutch Junior Algebraic Geometry Seminar, Universiteit Antwerpen  
*Title: Categorical resolutions of filtered schemes.*
- 20 February 2024 In the Algebraic Geometry Seminar, University of Glasgow  
*Title: Categorical resolutions of filtered schemes.*
- 1 June 2022 In the learning seminar on higher category theory and applications in algebra and geometry, organised by Bernhard Keller and Gustavo Jasso, online  
*Title: Infinity-categories as fibrant objects; The Boardman-Vogt construction, revisited.*
- Spring 2020 In the Pursuing stacks seminar, online  
*Titles: 'Why stacks?' & 'Final thoughts.'*

## PROFESSIONAL ACTIVITIES

### Research visits/stays

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

### Seminars co-organised

- Spring 2020 Pursuing stacks  
*Co-organising a reading group following Jarod Alper's course on stacks.*

### Committees

- 2020 - 2023 Member of the student disciplinary committee
- 2020 - 2023 Representative of the teaching assistants in the Mathematics Education council
- 2017 - 2019 Student representative in the Mathematics Education council
- 2014 - 2015 Student representative in the Physics and Astronomy Education council