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 - Present	**University of Glasgow** **Research Associate** Mentor: Michael Wemyss

Education

Nov 2019 - Oct 2023	**Vrije Universiteit Brussel** **Ph.D. in Mathematics** Title: Categorical resolutions of filtered schemes Supervisor: Prof. dr. Michel Van den Bergh Grant: Research Foundation - Flanders (FWO)
Sep 2017 - Jul 2019	**Vrije Universiteit Brussel** **Master of Science in Mathematics**
Sep 2016 - Jul 2017	**Vrije Universiteit Brussel** **Bachelor of Science in Mathematics**
Sep 2012 - Jul 2015	**Vrije Universiteit Brussel** **Bachelor of Science in Physics and Astronomy**

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), arXiv: 2309.08330.

[3] *Approximability and Rouquier dimension for noncommuative 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.

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 & Fall 2020-2022	Ordinary Differential Equations	
	'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)

Events and seminars co-organised

8-9 May 2024	Algebraic Geometry Days in Glasgow
	Two days of talks organised with Inder Kaur, Emma Lepri, Matthew Pressland and Franco Rota.
Spring 2020	Pursuing stacks
	Co-organised 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