

Curriculum Vitæ – Guillaume Laplante-Anfossi

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Citizenship *Canada*

Employment

2022-2025 **The University of Melbourne**, Melbourne, Australia, *Postdoc in Mathematics*
Advisor: Marcy Robertson

Education

2019-2022 **Université Sorbonne Paris Nord**, Villetaneuse, France, *Ph.D. in Mathematics*
Advisors: Eric Hoffbeck and Bruno Vallette
2018-2019 **Université Sorbonne Paris Nord**, Villetaneuse, France, *M.Sc. Fundamental Mathematics*
2015-2018 **Université de Montréal**, Québec, Canada, *B.Sc. Mathematics and Physics*
2012-2015 **Conservatoire de Musique de Montréal**, Québec, Canada, *B.Mus. Violin*

Research stays

February 2023 **Max Planck Institute for Mathematics**, Bonn, Germany.
Fall 2022 **Copenhagen University**, Copenhagen, Denmark.
Spring 2022 **Mittag-Leffler Institute**, Stockholm, Sweden.
December 2021 **Centre de Recerca Matemàtica**, Barcelona, Spain, with Vincent Pilaud
Summer 2021 **LaCIM**, Université du Québec à Montréal, Canada, with Hugh Thomas.

Research Interests

Algebraic topology (homotopical algebra, operads), Discrete Geometry (polytopes), Combinatorics.

Publications & Preprints

- *The diagonal of the operahedra*, Advances in Mathematics, August 2022, 108494.
- *The diagonal of the multiplihedra and the tensor product of A_∞ -morphisms*, with Thibaut Mazuir, Journal de l'École polytechnique - Mathématiques, vol. 10, 2023, 405-446.
- *Topological proofs of categorical coherence*, with Pierre-Louis Curien, submitted, <https://arxiv.org/abs/2302.07391>.
- *Cellular diagonals of permutahedra*, with Bérénice Delcroix-Oger, Vincent Pilaud and Kurt Stoeckl, submitted, <https://arxiv.org/abs/2308.12119>.

Mathematics and Architecture

- *Closing the Open System: Review of Nicolas Schöffer's 'La Tour Lumière Cybernétique' (1973)*, with Nina Stener Jørgensen, Footprint, vol. 16, 2022, 135-144.

Invited Speaker

March 2023	56th Spring Topology and Dynamics Conference , Memphis, USA.
February 2023	Higher Geometric Structures along the Lower Rhine , Utrecht, The Netherlands.
January 2023	Homotopy theory meets polyhedral combinatorics , Barcelona, Spain.
September 2022	Higher Structures in Prague , Prague, Czech Republic.

Recent Research Talks

September 4, 2023	Topology Seminar , Melbourne, Australia.
May 22, 2023	Quantum Mathematics Research Seminar , Odense, Denmark.
May 18, 2023	Copenhagen-Jerusalem Combinatorics Seminar , Copenhagen, Denmark.
March 24, 2023	Pure Mathematics Seminar , Melbourne, Australia.
March 13, 2023	Topology Seminar , Melbourne, Australia.
February 10, 2023	Seminar on abstract homotopy theory , Bonn, Germany.
February 3, 2023	Higher Categories, Polygraphs and Homotopy Seminar , Paris, France.
December 8, 2022	AustMS annual meeting , Sydney, Australia.

Selected Awards & Distinctions

2023	Galileo Thesis Prize – Université Sorbonne Paris Nord
2022	Andrew Sisson Early-Career Researcher Award
2019-2022	Europe Horizon 2020 Marie Skłodowska-Curie Cofund PhD Fellowship
2021-2022	Natural Sciences & Engineering Research Council of Canada PhD Scholarship

Organisation

Fall 2023	Working group on Model categories , Melbourne, Australia.
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Teaching

2023	The University of Melbourne , Teaching Assistant. <i>Linear algebra.</i>
2019-2022	Université Sorbonne Paris Nord , Teaching Assistant. <i>Complex Analysis, Linear Algebra, Real Analysis, Abstract Algebra.</i>
Winter 2019	ESIEE Paris , Teaching Assistant. <i>Introduction to Chaos Theory, Fourier Analysis.</i>

Outreach

August 20, 2023	Pure Math Open Day , Melbourne, Australia.
May 26, 2023	Galileo Thesis Prize Presentation , Villetaneuse, France.

Languages

French	<i>Native</i>
English	<i>Fluent</i>
German	<i>B1 Level</i>
Danish	<i>A2 Level</i>

Current as of September 18, 2023