Curriculum Vitæ – Guillaume Laplante-Anfossi

The University of Melbourne
School of Mathematics and Statistics, G82
813 Swanston Street
Victoria 3052, Australia

Website	math.univ-paris13.fr/ laplante-anfossi/
E-mail	guillaume.laplanteanfossi@unimelb.edu.au
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.

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

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.
October 20, 2022	**TallCat Seminar**, Tallinn University of Technology, Tallinn, Estonia.
September 22, 2022	**Categories & Companions Symposium**, MATRIX, Creswick, Australia.
September 7, 2022	**Algebra & Topology Seminar**, Københavns Universitet, Copenhagen, Danmark.

Selected Awards & Distinctions

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

Teaching

2019-2022	**Université Sorbonne Paris Nord**, Teaching Assistant.
	Complex Analysis, Linear Algebra, Real Analysis, Abstract Algebra.
Winter 2019	**ESIEE Paris**, Teaching Assistant.
	Introduction to Chaos Theory, Fourier Analysis.

Languages

French	*Native*
English	*Fluent*
German	*B1 Level*
Danish	*A2 Level*

Current as of April 28, 2023