

Pedro Tamaroff

Curriculum Vitæ

Office F306
Non-linear Algebra Group
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Current position: Postdoctoral visitor
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Research interests

Homological algebra, homotopical algebra, algebraic homotopy, effective methods, higher structures, operads, representation theory, combinatorics.

Publications

- [10] *The Tamarkin–Tsygan calculus of an associative algebra à la Stasheff.* [arXiv:1907.08888](https://arxiv.org/abs/1907.08888)
To appear in [Homol. Homotopy Appl.](#)
- [9] *Endofunctors and PBW theorems.* [arXiv:1804.06485](https://arxiv.org/abs/1804.06485)
Published in [Int. Math. Res. Not. rnz369](#), with V. Dotsenko.
- [8] *Minimal models for monomial algebras.* [arXiv:1804.01435](https://arxiv.org/abs/1804.01435)
Published in [Homol. Homotopy Appl.](#) vol. 23(1) pp. 341–366.

Preprints

- [7] *Tangent complexes and the Diamond Lemma.* [arXiv:2010.14792](https://arxiv.org/abs/2010.14792)
Submitted for publication, with Vladimir Dotsenko.
- [6] *Differential forms on smooth operadic algebras.* [arXiv:2010.08815](https://arxiv.org/abs/2010.08815)
Submitted for publication, with Ricardo Campos.
- [5] *Resolutions of algebraic operads coming from Koszul (bi)algebras.* [drAft:0000.00000](https://arxiv.org/abs/2000.00000)
Draft available.
- [4] *A spectral sequence for tangent cohomology of algebraic operads.* [arXiv:2008.00876](https://arxiv.org/abs/2008.00876)
Submitted for publication, with J. M. Moreno-Fernández.
- [3] *Derived Poincaré–Birkhoff–Witt theorems.* [arXiv:2003.06055](https://arxiv.org/abs/2003.06055)
Submitted for publication, with A. Khoroshkin.
- [2] *Hochschild cohomology of Gorenstein monomial algebras.* [arXiv:1909.00487](https://arxiv.org/abs/1909.00487)
Submitted for publication, with V. Dotsenko and V. Gélinas.
- [1] *The cohomology of twisted coalgebras.* [arXiv:2006.03780](https://arxiv.org/abs/2006.03780)
Submitted for publication.

Education

- 1. Ph.D. in Mathematics – School of Mathematics, Trinity College Dublin 2017–2021
Advisor: [Vladimir Dotsenko](#).
- 2. Lic. en Cs. Matemáticas – FCEN, Universidad de Buenos Aires 2013–2017
Advisor: [Mariano Suárez-Álvarez](#).

Conferences and workshops

- February 2021 [7] [Higher Homotopical Structures](#), Opening Workshop, CRM, Barcelona. Invited.
- May 2020 [10] [DG Methods in Comm. Algebra and Rep. Theory](#), Univ. of Utah. Contributed.
- March 2020 [8] [Higher homotopy algebras in topology II](#), Trinity College Dublin. Contributed.
- February 2020 [3,9] [Interactions between algebra and geometry](#), IRMA, Univ. de Strasbourg. Invited.
- May 2019 [8] [Homotopy meets homology](#), Trinity College Dublin. Contributed.
- August 2017 [1] [Coloquio Latinoamericano de Álgebra](#), PUCE, Quito, Ecuador. Contributed.

Seminar talks

May 2021	[7]	Algebraic rewriting seminar , France.
April 2021	[3,9]	Algebra seminar , Temple University.
	[7]	Seminar on Algebra, Algebraic Geometry and Algebraic Topology , MPIMiS.
	[7]	Homological Algebra Seminar , UBA, Argentina.
	[3,9]	The Antwerp Algebra Colloquium , University of Antwerp.
March 2021	[3,9]	Algebra, Geometry and Physics seminar , MPIM Bonn and HU Berlin.
	[7]	Séminaire et groupe de travail d'Algèbre , LMPA Josep Liouville, France.
February 2021	[3,9]	Séminaire d'algèbre à l'Institut Henri Poincaré , Paris, France.
January 2021	[7]	Algebra/Topology Seminar of the University of Copenhagen.
November 2020	[6]	Topology Seminar , EPFL, Lausanne, Switzerland.
October 2020		Deformation Theory Learning Seminar , University of Chicago, Illinois.
July 2020		Homological Algebra Seminar , UBA, Argentina.
November 2019	[10]	Colloquium of the Higher School of Economics , Moscow, Russia.
	[8]	Colloquium of the Steklov Mathematical Institute , Moscow, Russia.
	[10]	Institut de Recherche Mathématique Avancée , Université de Strasbourg, France.
September 2019	[10]	Algebra and Geometry Seminar , University of Stockholm, Sweden.
July 2019	[4]	Homological Algebra Seminar , UBA, Argentina.
March 2019	[8]	Catégories supérieures, polygraphes et homotopie , IRIF, Paris, France.
	[9]	Séminaire d'algèbre à l'Institut Henri Poincaré , Paris, France.
November 2018	[8]	Seminar of Mathematics , City University of London.
October 2018	[8]	Seminar of Mathematics , National Univ. of Ireland in Galway.