

Office F3 10
Non-linear Algebra Group
MPIMiS, Leipzig

Pedro Tamaroff

Curriculum Vitæ

Postdoctoral researcher
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Research interests

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

Publications

- [11] *Resolutions of operads via Koszul (bi)algebras.* Open access
Published in [J. Homotopy Relat. Struct.](#)
- [10] *The cohomology of coalgebras in species.* Open access
Published in [Commun. Algebra.](#)
- [9] *The Tamarkin–Tsygan calculus of an associative algebra à la Stasheff.* [arXiv:1907.08888](#)
Published in [Homol. Homotopy Appl.](#) vol. 23(2) pp. 257–282
- [8] *Endofunctors and PBW theorems.* [arXiv:1804.06485](#)
Published in [Int. Math. Res. Not.](#) [rnz369](#), with V. Dotsenko.
- [7] *Minimal models for monomial algebras.* [arXiv:1804.01435](#)
Published in [Homol. Homotopy Appl.](#) vol. 23(1) pp. 341–366.

Preprints

- [6] *Generalized cohomological field theories in the higher order formalism.* [arXiv:2112.06015](#)
With Vladimir Dotsenko and Sergey Shadrin.
- [5] *Tangent complexes and the Diamond Lemma.* [arXiv:2010.14792](#)
Submitted for publication, with Vladimir Dotsenko.
- [4] *Differential forms on smooth operadic algebras.* [arXiv:2010.08815](#)
Submitted for publication, with Ricardo Campos.
- [3] *A spectral sequence for tangent cohomology of algebraic operads.* [arXiv:2008.00876](#)
Submitted for publication, with J. M. Moreno-Fernández.
- [2] *Derived Poincaré–Birkhoff–Witt theorems.* [arXiv:2003.06055](#)
Submitted for publication, with A. Khoroshkin.
- [1] *Hochschild cohomology of Gorenstein monomial algebras.* [arXiv:1909.00487](#)
Submitted for publication, with V. Dotsenko and V. Gélinas.

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

Seminar talks

<i>November 2021</i>	<i>Topology Seminar</i> , Minnesota, USA.
<i>November 2021</i>	<i>Mathematics Seminar</i> , Luxembourg.
<i>October 2021</i>	<i>LAGOON Seminar</i> , United Kingdom.
<i>July 2021</i>	<i>Non-linear algebra research group seminar</i> , MPIMiS, Germany.
<i>June 2021</i>	<i>The Calgary Peripatetic Seminar</i> , Canada.
<i>May 2021</i>	<i>Algebraic rewriting seminar</i> , France.
<i>April 2021</i>	<i>Algebra seminar</i> , Temple University, USA.
	<i>Seminar on Algebra, Algebraic Geometry and Algebraic Topology</i> , MPIMiS.
	<i>Homological Algebra Seminar</i> , UBA, Argentina.
	<i>The Antwerp Algebra Colloquium</i> , University of Antwerp.
<i>March 2021</i>	<i>Algebra, Geometry and Physics seminar</i> , MPIM Bonn and HU Berlin.
	<i>Séminaire et groupe de travail d'Algèbre</i> , LMPA Josep Liouville, France.
<i>February 2021</i>	<i>Séminaire d'algèbre à l'Institut Henri Poincaré</i> , Paris, France.
<i>January 2021</i>	<i>Algebra/Topology Seminar</i> of the University of Copenhagen.
<i>November 2020</i>	<i>Topology Seminar</i> , EPFL, Lausanne, Switzerland.
<i>October 2020</i>	<i>Deformation Theory Learning Seminar</i> , University of Chicago, Illinois.
<i>July 2020</i>	<i>Homological Algebra Seminar</i> , UBA, Argentina.
<i>November 2019</i>	<i>Colloquium of the Higher School of Economics</i> , Moscow, Russia.
	<i>Colloquium of the Steklov Mathematical Institute</i> , Moscow, Russia.
	<i>Institut de Recherche Mathématique Avancée</i> , Université de Strasbourg, France.
<i>September 2019</i>	<i>Algebra and Geometry Seminar</i> , University of Stockholm, Sweden.
<i>July 2019</i>	<i>Homological Algebra Seminar</i> , UBA, Argentina.
<i>March 2019</i>	<i>Catégories supérieures, polygraphes et homotopie</i> , IRIF, Paris, France.
	<i>Séminaire d'algèbre à l'Institut Henri Poincaré</i> , Paris, France.
<i>November 2018</i>	<i>Seminar of Mathematics</i> , City University of London.
<i>October 2018</i>	<i>Seminar of Mathematics</i> , National Univ. of Ireland in Galway.