

## Research interests

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

## Publications

- [11] *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
- [10] *Endofunctors and PBW theorems.* [arXiv:1804.06485](#)  
Published in [Int. Math. Res. Not.](#) [rnz369](#), with V. Dotsenko.
- [9] *Minimal models for monomial algebras.* [arXiv:1804.01435](#)  
Published in [Homol. Homotopy Appl.](#) vol. 23(1) pp. 341–366.

## Preprints

- [8] *Generalized cohomological field theories in the higher order formalism.* [arXiv:2112.06015](#)  
With Vladimir Dotsenko and Sergey Shadrin.
- [7] *Tangent complexes and the Diamond Lemma.* [arXiv:2010.14792](#)  
Submitted for publication, with Vladimir Dotsenko.
- [6] *Differential forms on smooth operadic algebras.* [arXiv:2010.08815](#)  
Submitted for publication, with Ricardo Campos.
- [5] *Resolutions of algebraic operads coming from Koszul (bi)algebras.* [drAft:0000.00000](#)  
Submitted for publication.
- [4] *A spectral sequence for tangent cohomology of algebraic operads.* [arXiv:2008.00876](#)  
Submitted for publication, with J. M. Moreno-Fernández.
- [3] *Derived Poincaré–Birkhoff–Witt theorems.* [arXiv:2003.06055](#)  
Submitted for publication, with A. Khoroshkin.
- [2] *Hochschild cohomology of Gorenstein monomial algebras.* [arXiv:1909.00487](#)  
Submitted for publication, with V. Dotsenko and V. Gélinas.
- [1] *The cohomology of coalgebras in species.* [arXiv:2006.03780](#)  
To appear in *Commun. Algebra*.

## 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 [9] [Higher homotopy algebras in topology II](#), Trinity College Dublin. Contributed.
- February 2020 [3,10] [Interactions between algebra and geometry](#), IRMA, Univ. de Strasbourg. Invited.
- May 2019 [9] [Homotopy meets homology](#), Trinity College Dublin. Contributed.
- August 2017 [1] [Coloquio Latinoamericano de Álgebra](#), PUCE, Quito, Ecuador. Contributed.

## Seminar talks

November 2021	[8]	<a href="#">Topology Seminar</a> , Minnesota, USA.
November 2021	[8]	<a href="#">Mathematics Seminar</a> , Luxembourg.
October 2021	[9]	<a href="#">LAGOON Seminar</a> , United Kingdom.
July 2021	[9]	<a href="#">Non-linear algebra research group seminar</a> , MPIMiS, Germany.
June 2021	[7]	<a href="#">The Calgary Peripatetic Seminar</a> , Canada.
May 2021	[7]	<a href="#">Algebraic rewriting seminar</a> , France.
April 2021	[3,10]	<a href="#">Algebra seminar</a> , Temple University, USA.
	[7]	<a href="#">Seminar on Algebra, Algebraic Geometry and Algebraic Topology</a> , MPIMiS.
	[7]	<a href="#">Homological Algebra Seminar</a> , UBA, Argentina.
	[3,10]	<a href="#">The Antwerp Algebra Colloquium</a> , University of Antwerp.
March 2021	[3,10]	<a href="#">Algebra, Geometry and Physics seminar</a> , MPIM Bonn and HU Berlin.
	[7]	<a href="#">Séminaire et groupe de travail d'Algèbre</a> , LMPA Josep Liouville, France.
February 2021	[3,10]	<a href="#">Séminaire d'algèbre à l'Institut Henri Poincaré</a> , Paris, France.
January 2021	[7]	<a href="#">Algebra/Topology Seminar</a> of the University of Copenhagen.
November 2020	[6]	<a href="#">Topology Seminar</a> , EPFL, Lausanne, Switzerland.
October 2020		<a href="#">Deformation Theory Learning Seminar</a> , University of Chicago, Illinois.
July 2020		<a href="#">Homological Algebra Seminar</a> , UBA, Argentina.
November 2019	[11]	<a href="#">Colloquium of the Higher School of Economics</a> , Moscow, Russia.
	[9]	<a href="#">Colloquium of the Steklov Mathematical Institute</a> , Moscow, Russia.
	[11]	<a href="#">Institut de Recherche Mathématique Avancée</a> , Université de Strasbourg, France.
September 2019	[11]	<a href="#">Algebra and Geometry Seminar</a> , University of Stockholm, Sweden.
July 2019	[4]	<a href="#">Homological Algebra Seminar</a> , UBA, Argentina.
March 2019	[9]	<a href="#">Catégories supérieures, polygraphes et homotopie</a> , IRIF, Paris, France.
	[10]	<a href="#">Séminaire d'algèbre à l'Institut Henri Poincaré</a> , Paris, France.
November 2018	[9]	<a href="#">Seminar of Mathematics</a> , City University of London.
October 2018	[9]	<a href="#">Seminar of Mathematics</a> , National Univ. of Ireland in Galway.