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- Research interests**
- Operads. Koszul duality of operads. Goodwillie Calculus. Equivariant homotopy theory. Equivariant dendroidal sets. Equivariant operads.
- Education**
- Ph.D. in Mathematics 2013
Massachusetts Institute of Technology
Advisor: Mark Behrens
 - Mestrado em Matemática Aplicada e Computação 2008
Instituto Superior Técnico
Advisor: Rui Loja Fernandes
 - Licenciatura em Matemática Aplicada e Computação 2006
Instituto Superior Técnico
- Postdoctoral positions**
- Mary Ann Pitts Postdoctoral Fellow Fall 2013-Spring 2017
University of Virginia
- Publications**
- *Cofibrancy of operadic constructions in positive symmetric spectra Homology, Homotopy and Applications*, vol.13(2), 2016, pp.133-168
 - *Operad bimodules and composition products on André-Quillen filtrations of algebras* (joint with Nick Kuhn)
Algebraic & Geometric Topology, vol.17(2), 2017, pp.1105-1130
- Submitted**
- *Equivariant dendroidal sets*
<https://arxiv.org/abs/1702.08119>
- Preprints**
- *Genuine equivariant operads* (joint with Peter Bonventre)
In preparation
 - *Graph stable equivalences and operadic constructions in equivariant spectra* (joint with Markus Hausmann)
<http://www.faculty.virginia.edu/luisalex/research.html>
 - *Filtrations of colored operadic constructions and excisiveness of truncated operadic functors*
<http://www.faculty.virginia.edu/luisalex/research.html>
 - *Goodwillie calculus in algebras over a spectral operad*
<http://www.faculty.virginia.edu/luisalex/research.html>
 - *A general context for Goodwillie Calculus*
<https://arxiv.org/abs/1301.2832>

Research Talks

- *A (equivariant) tree description of (genuine equivariant) operads*
Spring 2017 at U.Va.
- *Genuine equivariant operads*
Fall 2016 at U.Va. and Notre Dame University and Spring 2017 at U. of Louisiana
- *N_∞ -operads and equivariant trees*
Spring 2016 at JHU and at U.Va.
- *Cofibrancy of operadic constructions in spectra*
Fall 2014 at U.Va.
- *Goodwillie Calculus in algebras over a spectral operad*
Fall 2014 at OSU and Fall 2013 at U.Va.

**Teaching
Experience**

- Math 1320 Spring 2017
Calculus II
- Math 1310 Fall 2016
Calculus I
- Math 8850 Spring 2016
Topics in Algebraic Topology
- Math 3351 Spring 2015, Fall 2015
Linear Algebra
- Math 3100 Spring 2014, Fall 2014, Spring 2015, Fall 2015
Introduction to Probability Theory
- Math 2310 Fall 2013
Multivariable Calculus

**Advisory
experience**

- part of the Ph.D. Thesis Dissertation Committee for Peter Bonventre
Spring 2017 at U.Va.

**Schools and
focused periods**

- MIT Talbot Workshop on *Calculus of Functors* Spring 2012
Garden City, UT