

Curriculum Vitae

INFORMAZIONI PERSONALI

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FORMAZIONE TITOLI

- Laurea in Matematica (110 e lode), Università degli Studi di Padova, 1999
- Dottorato in Informatica, University of Manchester (Inghilterra), 2002

ATTIVITA' DIDATTICA

- Elementi di Logica Matematica, CdL Triennale in Matematica, a.a. 2008/09, 2009/10, 2010/11, 2011/12 (corso mutuato dal CdL Triennale in Informatica)

RICERCHE FINANZIATE

- EPSRC Postdoctoral Fellowship in Mathematics (usufruita presso il Department of Pure Mathematics and Mathematical Statistics, University of Cambridge, Inghilterra, gennaio 2003-dicembre 2004)

PUBBLICAZIONE

1. [Polynomial functors and polynomial monads](#), written with J. Kock.
Mathematical Proceedings of the Cambridge Philosophical Society, 154 (1) 2013, pp. 153-192.
2. [Inductive types in Homotopy Type Theory](#), written with S. Awodey and K. Sojakova
Proceedings of the 2012 27th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2012), pp. 95-104.
The related Coq code is available on [here](#).
3. [Double adjunctions and free monads](#), written with T. M. Fiore and J. Kock
Cahiers de Topologie et Géométrie Différentielles Catégoriques, Forthcoming.
4. [Monads in double categories](#), written with T. M. Fiore and J. Kock
Journal of Pure and Applied Algebra 215 (6) 2011, pp. 1174-1197.
5. [Weighted limits in simplicial homotopy theory](#)
Journal of Pure and Applied Algebra 214 (7) 2010, pp. 1193-1199.
6. [Lawvere-Tierney sheaves in Algebraic Set Theory](#), written with S. Awodey, P. L. Lumsdaine and M. A. Warren
Journal of Symbolic Logic 73 (3) 2009, pp. 861-890.
7. [The identity type weak factorisation system](#), with R. Garner
Theoretical Computer Science 409 (1) 2008, pp. 94-109.
8. [The associated sheaf functor theorem in Algebraic Set Theory](#)
Annals of Pure and Applied Logic 56 (1) 2008, pp. 68-77.
9. [Homotopy limits for 2-categories](#)
Mathematical Proceedings of the Cambridge Philosophical Society 145 (1) 2008, pp. 43-63.
10. [The cartesian closed bicategory of generalised species of structures](#), written with M. Fiore, M. Hyland and G. Wyncel
Journal of the London Mathematical Society 77 (2) 2008, pp. 203-220.
11. [Spatiality for formal topologies](#), written with P. Schuster
Mathematical Structures in Computer Science 17 (1) 2007, pp. 65-80.
12. [Heyting-valued interpretations for constructive set theory](#)
Annals of Pure and Applied Logic 137 (1-3) 2006, pp. 164-188.
13. [The generalised type-theoretic interpretation of constructive set theory](#), written with P. Aczel
Journal of Symbolic Logic 71 (1) 2006, pp. 67-103.
14. [Presheaf models for Constructive Set Theories](#)
In L. Crosilla and P. Schuster (editors), *From Sets and Types to Topology and Analysis*, Oxford University Press, 2005, pp. 62-77.

15.

[Wellfounded Trees and Dependent Polynomial Functors](#), written with M. Hyland

In S. Berardi and M. Coppo and F. Damiani (editors), *Types for proofs and programs*, Lecture Notes in Computer Science 3085, Springer (2004), pp. 210-225.

16.

[Collection Principles in Dependent Type Theory](#), written with P. Aczel

In Z. Luo and J. McKinna and R. Pollack (editors), *Types for proofs and programs*, Lecture Notes in Computer Science 2277, Springer (2002), pp. 1-23.

AMBITI DI RICERCA

- Logica Matematica
- Teoria delle Categorie
- Informatica Teorica