# Christina Vasilakopoulou

# **EMPLOYMENT**

Sep 2022 – now	<b>National Technical University of Athens</b> Assistant Professor, School of Applied Mathematical and Physical Sciences, Department of Mathematics
Jun 2019 – Aug 2022	University of Patras, Greece
	Researcher, Department of Mathematics
Oct 2017 – June 2019	University of Calfornia at Riverside (USA)
	Visiting Assistant Professor, Department of Mathematics
Oct 2016 – Sep 2017	Université Libre de Bruxelles (Belgium)
	Postdoctoral Fellow, Department of Mathematics
Oct 2015 – Jun 2016	Massachusetts Institute of Technology (USA)
	Postdoctoral Associate, Department of Mathematics
May – Sep 2015	Athens University of Economics and Business (Greece)
	Postdoctoral Researcher, Department of Informatics
Sep 2014 – Feb 2015	University of Hawaii at Manoa (USA)
	Postdoctoral Research Fellow, Department of Information and Computer Sciences

#### **EDUCATION**

2010 - 2014	<b>University of Cambridge (UK) – PhD in Category Theory</b> Supervisors: Martin Hyland, Ignacio Lopez Franco
2009 – 2010	University of Cambridge (UK) – MASt in Mathematics
2005 – 2009	<b>University of Patras (Greece) – Ptychion in Mathematics</b> (B.Sc.) Direction: Pure Mathematics, Final mark: 9,26/10 "Excellent"

#### PAPERS

2022	John C. Baez, Kenny Courser and Christina Vasilakopoulou, Structured versus Decorated Cospans,
2022	Compositionality (3) 4
2022	Nicola Gambino, Richard Garner and Christina Vasilakopoulou, Monoidal Kleisli Bicategories
	and the Arithmetic Product of Coloured Symmetric Sequences
2021	Mitchell Buckley, Timmy Fieremans, Christina Vasilakopoulou and Joost Vercruysse, Oplax
	Hopf Algebras, Higher Structures 5, no. 1, 71–120
2021	Mitchell Buckley, Timmy Fieremans, Christina Vasilakopoulou and Joost Vercruysse, A Larson-
	Sweedler Theorem for Hopf V-categories, Advances in Mathematics 376
2021	Georgios Bakirtzis, Cody H. Fleming and Christina Vasilakopoulou, Categorical Semantics of
	Cyber-Physical Systems Theory, ACM Transactions on Cyber-Physical Systems (3) 5, 1–32
2020	Joe Moeller and Christina Vasilakopoulou, Monoidal Grothendieck Construction, Theory and
	Applications of Categories 35, no. 31, 1159–1207
2020	Georgios Bakirtzis, Christina Vasilakopoulou and Cody H. Fleming, Compositional Cyber-
	Physical Systems Modeling, ACT 2020, Electronic Proceedings in Theoretical Computer Science
2020	Ignacio López Franco and Christina Vasilakopoulou, Duoidal categories, measuring comonoids
	and enrichment
2020	Patrick Schultz, David Spivak and Christina Vasilakopoulou, <i>Dynamical Systems and Sheaves</i> , Applied Categorical Structures 28, no.1, 1–57.
2019	Christina Vasilakopoulou, Enriched duality in double categories: V-categories and V-cocategories,
2019	Journal of Pure and Applied Algebra 223, no. 7, 2889–2957
2018	Christina Vasilakopoulou, <i>On Enriched Fibrations</i> , Cahiers de Topologie et Géométrie Différen-
	tielle, (4) 50, 354–387
2017	Martin Hyland, Ignacio Lopez Franco and Christina Vasilakopoulou, Hopf measuring como-
-	noids and enrichment, Proceedings of the London Mathematical Society, (3) 115, 1118 – 1148
2017	Martin Hyland, Ignacio Lopez Franco and Christina Vasilakopoulou, Measuring comodules and
	enrichment

2017	Patrick Schultz, David Spivak, Christina Vasilakopoulou and Ryan Wisnesky, Algebraic Data-
	bases, Theory and Applications of Categories, volume 32, pages 547 – 619
2016	Vasilis Spyropoulos, Christina Vasilakopoulou and Yannis Kotidis, Digree: A Middleware for
	Distributed Graph Pattern Matching, Proceedings of the IEEE Big Data Workshop on Methods
	to Manage Heterogeneous Data and Polystore Systems, Washington D.C., Dec 2016
2014	Christina Vasilakopoulou, Generalization of Algebraic Operations via Enrichment, PhD thesis
2012	Christina Vasilakopoulou, Enrichment of Categories of Algebras and Modules

### SELECTED TALKS

	The set $I_{1} \in C_{1}$ and $I_{2} \in C_{2}$
2023	Topos Institute Colloquium (online)
	Talk: Dual algebraic structures and enrichment
2022	Virtual Double Categories Workshop (online)
	Talk: Monoidal Kleisli double categories
2020	Algebra seminar at Masaryk University, Brno, Czech Republic (online)
	Talk: Oplax Hopf Algebras
2020	Colloquium of Department of Mathematics, Macquarie University, Australia
	Also in European Centre for Living Technology Seminar, University of Venice, Italy (2019)
	Talk: Wiring diagrams, a categorical formalism for systems modeling
2019	Fifth Symposium on Compositional Structures, University of Birmingham, UK
	Talk: The Dialectica category and related structures
2018	Riverside Mathematics Workshop for Excellence and Diversity, UCR, USA
	Talk: Hopf and Frobenius algebras: generalizations and the Larson-Sweedler Theorem
2018	CT2018 (International Category Theory Conference), University of Azores, Portugal
	Talk: Monoidal Grothendieck Construction
2017	AMS Meeting, Special Session on Applied Category Theory, UCR, USA
	Talk: Abstract Dynamical Systems
2017	CT2017, UBC, Vancouver, Canada
	Talk: Hopf categories as Hopf monads in enriched matrices
2014	CT2014, University of Cambridge, UK
	Talk: Enriched Fibration
2013	CT2013, Macquarie University, Sydney
-	Talk: Enrichment of V-categories in V-cocategories

## EXPERIENCE, AWARDS & MISCELLANEOUS

2023	Chair of the Scientific committee: ACT2023, University of Florida, Miami, USA
2023	Organizing committee: PSSL107, National Technical University of Athens, Greece
2021	Scientific committee: CT2021, University of Genova, Italy
2020	Steering & program committee: ACT2020, MIT, USA, 6-10 July
2017–2019	Primary instructor of 'Intro to College Mathematics for Business and Social Sciences',
	'Intro to College Mathematics for Sciences II', 'Calculus for Life Sciences II', 'First Year
	Calculus I, II' and 'Calculus of Several Variables I', Department of Mathematics, UCR
2019	Outstanding Teaching Award, Department of Mathematics, UCR, USA
2019	Steering & Scientific committee: ACT2019, University of Oxford, UK, 15-19 July
2019	Organizing committee: CT2019, University of Edinburgh, UK, 7-13 July
2019	Advisor for Statebox visual programming language using category theory and Petri nets
2017	Organizing committee: Brussels Hopf Algebra workshop, ULB, 29-30 August
2016	Teaching assistant for graduate course Category Theory, ULB
2014	Selected participant, Kan Extension Seminar, blog post
2010 - 2014	Supervisor (teaching assistant) for undergraduate courses Groups (Part IA) and Groups,
	Rings and Modules (Part IB), University of Cambridge, UK
2009 – 2014	George and Marie Vergotis Bursary (Cambridge Trusts), A.G.Leventis Foundation Scholar-
	ship, Internal Graduate Studentship (Trinity College), Propondis Foundation Scholarship
2005 – 2009	Scholarships of entrance (1st) and performance (1st), Department of Mathematics, Univer-
	sity of Patras, Greece – Institution of Government Scholarships (IKY)