Todd Schmid (he/him/they/them)

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EMPLOYMENT

	Assistant Professor at SAINT MARY'S COLLEGE OF CALIFORNIA
07/2023 to present	Department of Mathematics and Computer Science
	Moraga, CA, USA

SHORT-TERM POSITIONS

Department of Computer Science Ithaca, NY, USA
Guest Researcher at RADBOUD UNIVERSITY Department of Computer Science Nijmegen, The Netherlands
UNIVERSITY COLLEGE LONDON Graduate Program: PhD Computer Science (4 year program) London, UK

09/2018
to 08/2019Graduate Program: MSc Mathematics (1 year program)
Toronto, ON, Canada

	UNIVERSITY OF VICTORIA
09/2013	Undergraduate Program: Honours BSc Mathematics
to 05/2018	Victoria, BC, Canada

TEACHING

02/2024 to present	Instructor at SAINT MARY'S COLLEGE OF CALIFORNIA, Moraga, CA, USA - CS485: Introduction to Automata and the Theory of Computation - CS121: Programming I
09/2023 to 12/2023	Instructor at SAINT MARY'S COLLEGE OF CALIFORNIA, Moraga, CA, USA - CS374: Analysis of Algorithms - CS121: Programming I
08/2022 to 11/2022	Co-Instructor at XIDIAN UNIVERSITY, Xi'an, China Theory of Computation: Automata and Coinduction

02/2022 to 10/2022	Co-Instructor at GEC ACADEMY, Beijing, China Theory of Computation: Automata and Coinduction
01/2020 to 12/2021	Teaching Assistant at UNIVERSITY COLLEGE LONDON, London, UK - COMP0147: Discrete Mathematics for Computer Science - COMP0017: Computability and Complexity Theory
09/2018 to 05/2019	Teaching Assistant at UNIVERSITY OF TORONTO, Toronto, ON, Canada MAT137: Calculus!
09/2015 to 05/2018	Teaching Assistant at UNIVERSITY OF VICTORIA, Victoria, BC, Canada - MATH122: Logic and Foundations - MATH100: Calculus I - MATH120: Precalculus - MATH200: Calculus III
09/2016 to 05/2018	Assistance Centre Tutor at UNIVERSITY OF VICTORIA, Victoria, BC, Canada
PUBLICATIONS	
2023	<i>Fractals from Regular Behaviours</i> Authors: Todd Schmid , Victoria Noquez, and Lawrence Moss Venue: 10th Conference on Algebra and Coalgebra in Computer Science (CALCO'23) Best Paper Award
	A Complete Inference System for Skip-free Guarded Kleene Algebra with Tests Authors: Tobias Kappé, Todd Schmid , and Alexandra Silva Venue: 32nd European Symposium on Programming (ESOP'23)
	Probabilistic Guarded KAT Modulo Bisimilarity: Completeness and Complexity Authors: Wojciech Rozowski, Tobias Kappé, Dexter Kozen, Todd Schmid , and Alexandra Silva Venue: 50th International Colloquium on Automata, Languages, and Program- ming (ICALP'23)
2022	<i>Processes Parametrised by an Algebraic Theory</i> Authors: Todd Schmid , Wojciech Rozowski, Jurriaan Rot, and Alexandra Silva Venue: 49th International Colloquium on Automata, Languages, and Program- ming (ICALP'22)
2021	<i>How to Write a Coequation ((Co)algebraic pearls)</i> Authors: Fredrik Dahlqvist and Todd Schmid Venue: 9th Conference on Algebra and Coalgebra in Computer Science (CALCO'22)

	Venue: On Star Expressions and Coalgebraic Completeness Theorems Authors: Todd Schmid , Jurriaan Rot, and Alexandra Silva Venue: 37th Conference on Mathematical Foundations of Programming Seman- tics (MFPS'22)
	Guarded Kleene Algebra with Tests: Coequations, Coinduction, and Completeness Authors: Todd Schmid , Tobias Kappé, Dexter Kozen, and Alexandra Silva Venue: 48th International Colloquium on Automata, Languages, and Program- ming (ICALP'22)
2019	Concrete barriers to quantifier elimination in finite dimensional C^* -algebras Authors: Christopher Eagle and Todd Schmid Venue: Mathematical Logic Quarterly, vol. 65
PREPRINTS	
2022	A (Co)algebraic Framework for Ordered Processes URL: https://arxiv.org/abs/2209.00634
2022	Presenting with Quantitative Inequational Theories Presented at BLAST 20222, at CHAPMAN UNIVERSITY, Orange, CA, USA URL: https://arxiv.org/abs/2207.11629
TALKS	
10/2023	How to Write a Coequation Venue: Boston Computation Club, Boston, MA, USA
09/2023	Generating Melodies and Fractals with Transition Systems Venue: Saint Mary's College of California Math Colloquium Hosted by: SAINT MARY'S COLLEGE OF CALIFORNIA, Moraga, CA, USA
08/2022	Presenting Quantitative Inequational Theories Venue: BLAST 2022 Hosted by: CHAPMAN UNIVERSITY, Orange, CA, USA
07/2022	Presenting Quantitative Inequational Theories Venue: ICALP 2022 Hosted by: UNIVERSITÉ PARIS CITÉ, Paris, France
08/2021	On Star Expressions and Completeness Theorems Venue: MFPS 2021 Hosted by: UNIVERCITY OF SALZBURG, Salzburg, Germany

07/2021	Guarded Kleene Algebra with Tests: Coequations, Coinduction, and Completeness Venue: ICALP 2021 Hosted by: UNIVERSITY OF GLASGOW, Glasgow, Scotland, UK
03/2020	Guarded Kleene Algebra with Tests: Coequations, Coinduction, and Completeness Venue: Programming Principles, Logic, and Verification Group Seminar Hosted by: UNIVERSITY COLLEGE LONDON, London, UK
09/2019	Sheaves, or How to Glue Stuff Together Venue: SUMS Student Seminar Hosted by: UNIVERSITY OF VICTORIA, Victoria, BC, Canada
08/2019	Topos Theory and the Independence of the Continuum Hypothesis Venue: Toronto Set Theory Seminar Hosted by: FIELDS INSTITUTE, Toronto, ON, Canada
11/2018	Why Heyting Algebras are Interesting Venue: University of Toronto Graduate Student Seminar Hosted by: UNIVERSITY OF TORONTO, Toronto, ON, Canada
07/2017	<i>A Tale of Two Models</i> Venue: Canadian Undergraduate Mathematics Conference Hosted by: UQAM, CONCORDIA, and UNIVERSITÉ DE MONTRÉAL, Montréal, QC, Canada
01/2017	<i>A Fixed-Point Theorem from Modal Logic</i> Venue: Séminaires universitaires en mathématiques à Montréal Hosted by: UQAM, CONCORDIA, and UNIVERSITÉ DE MONTRÉAL, Montréal, QC, Canada
Awards and Residencies	
07/2024	2024 Summer Research in Mathematics program Simons Laufer Mathematical Sciences Institute
Service and Outreach	

09/2020	London Maths Outreach
to 08/2021	Director
05/2017	Undergraduate Math and Stats Course Union (SUMS)
to 04/2018	Co-president
07/2014 to 09/2014	Canadian Undergraduate Mathematics Conference Organizer