

1 rue Victor Hugo, 92120 Montrouge

□ (+33) 82 45 72 72 | Se.l.finster@bham.ac.uk | Arcifinster.github.io | Gricfinster

Current Position

University of Birmingham

Birmingham, UK

Sep 2020 - Present

LECTURER

- Module lead for Functional Programming
- Module lead for Advanced Functional Programming in Agda

Research Experience _____

University of Cambridge

Cambridge, UK

POSTDOCTORAL RESEARCHER

Apr 2020 - Aug 2021

• Department of Computer Science

• Supervisor: Dr. Jamie Vicary

University of Birmingham

Birmingham, UK

POSTDOCTORAL RESEARCHER

Feb 2019 - Mar 2020

• Department of Computer Science

• Supervisor: Dr. Jamie Vicary

Inria - Nantes Nates, France

POSTDOCTORAL RESEARCHER

Feb 2017- Feb 2019

• Supervisor: Dr. Nicolas Tabareau

• Project: ERC - CoqHoTT

École Polytechnique Saclay, France

POSTDOCTORAL RESEARCHER

Mar 2015 - Jan 2017

- Laboratoire d'Informatique (LIX)
- Supervisor: Dr. Eric Goubault
- Project: Tandem

Inria Paris-Roquencourt Paris, France

POSTDOCTORAL RESEARCHER

Dec 2013 - Dec 2014

- Supervisor: Dr. Pierre-Louis Curien
- Team: πr^2

Institute for Advanced Study

Princeton, United States

POSTDOCTORAL RESEARCHER

Sep 2012 - Jul 2013

- Univalent Foundations Program
- Supervisor: Dr. Vladimir Voevodsky

École Polytechnique Fédérale de Lausanne

Lausanne, Switzerland

POSTDOCTORAL RESEARCHER

Sep 2010 - Aug 2012

• Supervisor: Dr. Katheryn Hess

Education

University of Virginia

Charlottesville, Virginia

B.S. IN MATHEMATICS

2004

• Undergraduate Advisor: Dr. Brian Parshall

University of Virginia

Charlottesville, Virginia

PHD IN MATHEMATICS

2010

Thesis: Stabilization of Homotopy LimitsAdvisor: Dr. Gregory Arone

DECEMBER 5, 2022 ERIC L. FINSTER · RÉSUMÉ

Publications _____

Homotopy Type Theory: Univalent Foundations of Mathematics INDEPENDENTLY PUBLISHED Collectively written by the members of the Univalent Foundations Project	Book 2013
Eilenberg-MacLane Spaces in Homotopy Type Theory Logic in Computer Science (LICS) • with Dan Licata	Proceedings 2014
A Mechanization of the Blakers-Massey Theorem in Homotopy Type Theory LOGIC IN COMPUTER SCIENCE (LICS) • with Dan Licata, Peter Lumsdaine and Kuen-Bang Hou	Proceedings 2016
A Type Theoretic Definition of Weak ω -categories Logic in Computer Science (LICS) • with Samuel Mimram	Proceedings 2017
Goodwillie's Calculus of Functors and Higher Topos Theory JOURNAL OF TOPOLOGY • with Mathieu Anel, Georg Biedermann, André Joyal	Article 2018
A Generalized Blakers-Massey Theorem JOURNAL OF TOPOLOGY • with Mathieu Anel, Georg Biedermann, André Joyal	Article 2020
Types are Internal ∞-groupoids Logic in Computer Science (LICS) • with Mathieu Sozeau and Antoine Allioux	Proceedings 2021
A Cartesian Bicategory of Polynomial Functors in Homotopy Type Theory MATHEMATICAL FOUNDATIONS OF PROGRAMMING SEMANTICS • with Samuel Mimram, Thomas Sellier and Maxime Lucas	Proceedings 2021
A Type Theory for Strictly Unital Infinity Categories Logic in Computer Science (LICS) with David Reutter, Jamie Vicary and Alex Rice	Proceedings 2022
Left-exact localizations of ∞-topoi I: Higher sheaves Advances in Mathematics • with Mathieu Anel, Georg Biedermann, André Joyal	Article 2022
Left-exact Localizations of ∞-Topoi II: Grothendieck Topologies JOURNAL OF PURE AND APPLIED ALGEBRA (ACCEPTED PENDING REVISION) • with Mathieu Anel, Georg Biedermann, André Joyal	Articel 2022
Preprints	
Synthetic spectra via a monadic and comonadic modality ARXIV:2102.04099 • with Dan Licata and Mitchell Riley	Preprint 2021
Globular weak ω -categories as models of a type theory ARXIV:2106.04475 • with Samuel Mimram and Thibaut Benjamin	Preprint 2021
A Type Theory for Strictly Associative Infinity Categories ARXIV:2109.01513 (ACCEPTED FOR SYCO 10) • with Jamie Vicary and Alex Rice	Conference Paper 2022
Computads for Weak ω -categories as an Inductive Type ARXIV:2208.08719 • with Jamie Vicary, Christopher Dean, Ioannis Markakis and David Reutter	Preprint 2022

Seminars and Conference Talks _____

Revisiting the Opetopes	Glasgow
SCOTTISH CATEGORY THEORY SEMINAR	May 2012
Type Theory and the Opetopes	Ljubljana
HIGHER DIMENSIONAL ALGEBRA, CATEGORIES, TYPES	2012
The Calculus of Opetopes	Princeton
INSTITUTE FOR ADVANCED STUDY SEMINAR	Jan 2013
Cohomology in Homotopy Type Theory	Princeton
INSTITUTE FOR ADVANCED STUDY SEMINAR	Mar 2013
The Language of Opetopic Categories	Warsaw
Workshop on Opetopes, Opetopic Sets and Opetopic Categories	Mar 2013
Opetopic Diagrams as a Language for Higher Categorical Proofs	Lyon
MATHEMATICAL STRUTURES OF COMPUTATION	Jan 2014
Opetopic Diagrams as a Language for Higher Categorical Proofs	Paris
Journées de la Fédération de Recherche en Mathématiques	May 2014
A Survery of Univalent Foundations	Paris
Université Paris-Diderot	Nov 2014
Opetopic Diagrams and Higher Categorical Proof Theory	Warsaw
HIGHER-DIMENSIONAL REWRITING AND APPLICATIONS	May 2015
Towards an Opetopic Type Theory	Stockholm
University of Stockholm - Research Seminar	May 2015
Higher Categories with Families	Bonn
HOMOTOPY TYPE THEORY WORKSHOP - MAX PLANCK INSTITUTE	Feb 2016
The Identity of Proofs	Toulouse
Workshop, Mathématiques et Philosophie des Mathématiques	Apr 2016
Opetopic Higher Categories, a Diagrammatic Approach	Paris
GDR Topologie Algebrique	Dec 2016
Left Exact Modalities in Type Theory	Nantes
Journées Nationales Géocal	Nov 2017
Left Exact Modalities in Type Theory	Pittsburgh
CARNEGIE MELLON LOGIC SEMINAR	Feb 2018
Left Exact Modalities in Type Theory	Cambridge
CAMBRIDGE LOGIC SEMINAR	Mar 2018
The Catt Proof Assistant	Fontainebleau
JOURNÉES PPS	Jun 2018
The Cotopological Tower	Montpellier
GDR Topologie Algebrique	Oct 2018
Egalité et identité dans les fondements des mathématiques	Lyon
Le Même et l'autre: identité, orthogonalité, types	Nov 2018
Journées PPS	Paris
TOWARDS HIGHER UNIVERAL ALGEBRA IN TYPE THEORY	Nov 2018
Homotopy Type Theory Electronic Seminar	Online
TOWARDS HIGHER UNIVERAL ALGEBRA IN TYPE THEORY	Dec 2018
Workshop on Geometry in Modal Homotopy Type Theory	Pittsburgh
A Type Theoretic View of Goodwillie Calculus	Mar 2018

Program Committees _____

2011	Organizer , Young Topologists' Meeting	Lausanne
2015	Scientific Committee, UF/HoTT	Warsaw
2016	Scientific Committee, UF/HoTT	Porto
2021	Orgianizer, YaMCATS (Yokshire and Midlands Category Theory Seminar)	United Kinadom