

Sina Hazratpour

Education

Postgraduate Qualifications.....

- **University of Birmingham**
PhD in Computer Science 2015-2018
- **The University of Western Ontario**
M.Sc. in Mathematics 2013-2015

Research Interests.....

- **Category theory, Topos theory, Higher category theory, Categorical logic, Univalent foundation**

Talks, Seminars, and Conferences

- **Equivalence of 2-category of stacks and 2-category of internal groupoids in sheaf toposes**
Theory Group Lab Lunch, School of Computer Science, University of Birmingham, UK
March 2017
- **String Diagrams For Distributivity Law Of Monads In Bicategories**
CARGO(category theory reading group) seminars, University of Birmingham, UK
February 2017
- **Injective Objects In Topoi**
CARGO(category theory reading group) seminars, University of Birmingham, UK
November 2016
- **Two Lectures On Geometric Theories And Classifying Topoi**
CARGO seminars, University of Birmingham, UK
October 2016
- **Polynomial Functors For Presheaf Topoi And Groupoids**
CARGO seminars, University of Birmingham, UK
June 2015
- **Polynomial Functors And Opetopes**
CARGO seminars, University of Birmingham, UK
June 2015
- **Categorical Localization**

CARGO seminars, University of Birmingham, UK
April 2015

- **Four Lecture On Introduction To Higher Category Theory**
CARGO seminars, University of Birmingham, UK
January-February 2015
- **Categorical Probability And Categorical Entropy**
Theory Group Lab Lunch, School of Computer Science, University of Birmingham, UK
September 2015
- **Distribution Monads, Contextuality, And Cohomology**
Theory Seminars, School of Computer Science, University of Birmingham, UK
August 2015
- **A Gentle Introduction to Quantum Computing For Computer Scientists**
CARGO seminars, University of Birmingham, UK
July 2015
- **Gleason's Theorem And Its Generalization In Toposical Setting**
Grad Seminars. Western University. London, Canada
April 2015
- **Homogeneous Manifolds**
Geometry and Topology seminars. Western University. London, Canada
February 2015
- **Kochen-Specker Theorem And Its Toposical Formulation**
Grad Seminars. Western University. London, Canada
November 2014
- **Quiver Representations And Gabriel's Theorem**
Algebra seminars. University of Waterloo, Canada
October 2014
- **Category Theory In HoTT**
HoTT Seminar. Western University. London, Canada
October 2014
- **On Plenitudinous Platonism**
Western Philosophy Seminars, Western University, London, Canada
September 2014
- **Modules Of Differentials And Hochschild Formula**
Graduate Seminar. Commutative Algebra. Western University. London, Canada
March 2014
- **Groupoids And Van-Kampen Theorem**
Class Seminar. Algebraic Topology. Western University. London, Canada
November 2013

Recent Participation In:.....

- **YTM 2016**
University of Copenhagen, July 4-8, 2016
- **PSSL 100**
University of Cambridge, 21 - 22 May 2016
- **Motives and derived algebraic geometry**
University of Essen, Germany, May 6-8, 2016
- **Midlands Graduate School**
University of Birmingham, UK, 11 - 15 April, 2016
- **Higher geometric structures along the Lower Rhine VII**
KU, Leuven, April 7-8, 2016
- **PSSL 98**
Doorn, the Netherlands
- **IHES Topos**
IHES, France, November 23-27, 2015
- **150 Years of London Mathematical Society**
University of Birmingham, UK, September 18-20, 2015
- **Infinite-Dimensional Representations of Finite-Dimensional Algebras**
Summer School, University of Manchester, September 8-13, 2015
- **British Logic Colloquium 2015**
University of Cambridge, September 1-4, 2015
- **Logic Colloquium 2015**
University of Helsinki, August 8-13, 2015
- **Scandinavian Logic Summer School 2015**
University of Helsinki, July 27-August 3, 2015
- **QPL 2015**
University of Oxford, July 13-17, 2015
- **HoTT workshop by QMAC at University of Oxford**
University of Oxford, November 7-10, 2014

Awards, Honours, and Prizes

- **PhD Scholarship, School of Computer Science, University of Birmingham, UK**
May 2015
- **Research Assistantship Scholarship, Faculty of Science, University of Western Ontario**
September 2013
- **Entrance Scholarship, Department of Mathematics, University of Western Ontario**
September 2013
- **University President Award For Outstanding Achievement In IMC Competitions 2011 and 2012**
Mathematics Department of Ferdowsi University of Mashhad, July 2011, 2012
- **University President Award For Outstanding Achievement In IMS Competitions 2010, 2011, and 2012**
Mathematics Department of Ferdowsi University of Mashhad, March 2010, 2011, and 2012

Teaching Experiences

- **Team Project Module, School of Computer Science**
University of Birmingham, Fall 2016
- **Functional Programming Languages, School of Computer Science**
University of Birmingham, Fall 2015
- **MATH 3122B (Metric Space Topology), Mathematics Department**
Western University, Fall 2014
- **MATH 2122A (Real Analysis), Mathematics Department**
Western University, Spring 2014
- **Calculus 1225 Help Center, Faculty of Science**
Western University, Fall 2014
- **Teaching at Putnam Training Sessions, Western University**
Fall 2013, 2014
- **Theory of Rings and Modules, Mathematics Department**
Ferdowsi University of Mashhad, Fall 2012
- **Complex Variable and Applications, Mathematics Department**
Ferdowsi University of Mashhad, Fall 2011
- **Number theory and Combinatorics at High school Mathematical Olympiad Camp**
NODET High School, 2011-2012

Skills

Computer Skills.....

- **Programming Languages**
C, Haskell, OCaml, Mathematica

Languages.....

- **English, German (modest), Dutch, Persian**

References

- **Professor Steven Vickers** School of Computer Science, University of Birmingham, UK
<http://www.cs.bham.ac.uk/~sjv/>
s.j.vickers@cs.bham.ac.uk
- **Professor John L.Bell** Philosophy Department, Western University, London, Canada
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- **Professor Martín Escardó** School of Computer Science, University of Birmingham, UK
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- **Professor Masoud Khalkhali** Department of Mathematics, Western University, London, Canada
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- **Professor Dan Christensen** Department of Mathematics, Western University, London, Canada
<http://jdc.math.uwo.ca/>
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- **Professor Martin Pinsonnault** Department of Mathematics, Western University, London, Canada
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- **Professor Mohammad Sal Moslehian** Department of Mathematics, Ferdowsi University
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