

# Alexander S. Corner

---

alexander.s.corner@gmail.com

corner.postgrad.shef.ac.uk

## EDUCATION

**University of Sheffield**, Sheffield, UK

Pure Mathematics, PhD, 2012 - Present, supervised by Dr Nick Gurski

Mathematics, MMath (1st Class), 2008 - 2012

Associate Fellow of the HEA

**Polimi Open Knowledge**

Certificate as Flipped Classroom Designer, 2016

## EMPLOYMENT

**University of Sheffield**, Sheffield, UK

**Lead Demonstrator**, 2015 - Present

- *Essential Mathematical Skills and Techniques* - a first year undergraduate course for engineering students taught using a flipped classroom format
- *Algebra* - an undergraduate course in abstract algebra and linear algebra

**Assistant Demonstrator**, 2011 - Present

- *Continuity and Integration* - an undergraduate analysis course
- *Rings and Groups* - an undergraduate course in abstract algebra

**Marking Assistant**, 2012 - Present

- *Continuity and Integration*
- *Rings and Groups*

**Study Group International**, Sheffield, UK

**Sessional Tutor**, 2016 - Present, University of Sheffield International College

- *Pure Mathematics* - a course designed to cover the core A-Level syllabus (OCR), as well as extra material from the further pure modules

## EXPERIENCE

Student Representative, SoMaS Teaching Committee, University of Sheffield, 2011 - 2012

Student Representative, SoMaS Staff-Student Forum, University of Sheffield, 2010 - 2012

Undergraduate Student Researcher, SoMaS, University of Sheffield, July 2011 - August 2011

## RESEARCH

Topics in higher category theory: coherence, operads, monoidal bicategories, Day convolution

PREPRINTS      Operads with general groups of equivariance, and some 2-categorical aspects of operads in  $\text{Cat}$ , with Nick Gurski, arXiv:1312.5910

INVITED TALKS      British Mathematics Colloquium, University of Cambridge, “Lax monoidal model structures,” March 2015

CONTRIBUTED TALKS      International Category Theory Conference, “Tensoring braided strict monoidal categories,” July 2014  
Kan Extension Seminar, “Coherence for categorical structures,” June 2014  
95th Peripatetic Seminar on Sheaves and Logic, “Tensoring braided strict monoidal categories,” April 2014