Daniel Barter

Date of Birth: November 27, 1989Place of Birth: Melbourne, Australia

• Citizenship: Australia

Education

- B.Sc with First Class Honours and University Medal, Pure Mathematics, University of Sydney, 2008-2011.
- PhD, Pure Mathematics, University of Michigan, 2012 2017. Specialized in category theory and representation theory.
- Independent Study.
 - Pure Mathematics: differential geometry, representation theory and category theory.
 - Statistical Inference: discriminative and generative models, inference algorithms (MAP estimation, MCMC, variational methods).
 - Computer Science: applicative language (LISP, Scheme) interpreters, categorical design patterns for functional programming.

Papers

• Noetherianity and rooted trees. arXiv:1509.04228

Invited Talks

- Michigan theoretical computer science seminar, Tensor rank and stability in representation theory
- Berkeley combinatorics seminar, Combinatorial categories, configuration spaces and tensorial species

Teaching

- Tutor, MATH1001 (Differential Calculus), Sem 1, 2011, University of Sydney
- Tutor, MATH1003 (Integral Calculus and Modeling), Sem 2, 2011, University of Sydney
- Tutor, MATH1901 (Differential Calculus Advanced), Sem 1, 2012, University of Sydney
- Graduate Student Instructor, Math 115 (Calculus 1), Fall 2012, University of Michigan
- Graduate Student Instructor, Math 115 (Calculus 1), Winter 2013, University of Michigan
- Graduate Student Instructor, Math 215 (Calculus 3), Fall 2013, University of Michigan
- Graduate Student Instructor, Math 116 (Calculus 2), Winter 2014, University of Michigan
- Graduate Student Instructor, Math 116 (Calculus 2), Fall 2014, University of Michigan
- Graduate Student Instructor, Math 215 (Calculus 3), Winter 2015, University of Michigan