

# Donald Robertson

## Contact Information

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## Education

- 2008-Present: Mathematics Ph.D. Program, Ohio State University, USA  
Advisor: Vitaly Bergelson, Expected graduation date: May 2015
- 2005-2006: Exchange student at University of Pennsylvania, USA
- 2004-2008: MPhys Mathematics & Theoretical Physics, University of St. Andrews, UK

## Papers

- Triangles in quasirandom groups (joint with V. Bergelson and P. Zorin-Kranich) *submitted*  
<http://arxiv.org/abs/1410.5385>
- Polynomial multiple recurrence over rings of integers (joint with V. Bergelson) *to appear in Ergodic Theory and Dynamical Systems*  
<http://arxiv.org/abs/1409.7569>
- Polynomial recurrence with large intersection over countable fields (joint with V. Bergelson) *to appear in Israel Journal of Mathematics*  
<http://arxiv.org/abs/1409.6774>
- Finite Products Sets and Minimally Almost Periodic Groups (joint with V. Bergelson, C. Christopherson and P. Zorin-Kranich) *submitted*  
<http://arxiv.org/abs/1402.4736>
- Characteristic factors for commuting actions of amenable groups *to appear in Journal d'Analyse Mathématique*  
<http://arxiv.org/abs/1402.3843>

## Theses

- Characteristic factors for multiple recurrence and combinatorial applications, Ph.D. thesis, *in preparation*, Vitaly Bergelson advising, Ohio State University
- Subgroups of rationals, MPhys thesis, Nik Ruškuc advising, University of St. Andrews

## Talks

- Dynamical Systems Seminar, Northwestern University, January 2015
- Ergodic Theory Seminar, OSU, November 2014
- Math Department Seminar, Texas Southern University, September 2014
- Logic, Dynamics and Their Interactions II, University of North Texas, June 2014
- What Is...? Seminar, OSU, July 2014
- Ergodic Theory Seminar, UIUC, February 2014
- Ergodic Theory Seminar, OSU, Spring 2014
- Ergodic Theory Seminar, OSU, February 2013
- Ergodic Theory Study Group, OSU, July 2011
- What Is...? Seminar, OSU, June 2010
- What Is...? Seminar, OSU, July 2009
- Graduate Student Seminar, University of St Andrews, Autumn 2007

## Teaching

- Graduate Analysis Qualifying Exam Class TA, Ohio State University: Summer 2013
- Calculus III Lecturer, Ohio State University: Summer 2011
- Calculus II Lecturer, Ohio State University: Summer 2010
- Trigonometry TA, Ohio State University: Autumn 2014, Spring 2014
- Mathematical Topics for Engineers, Ohio State University: Spring 2015, Autumn 2013
- Calculus III TA, Ohio State University: Autumn 2012, Winter 2011
- Calculus II TA, Ohio State University: Autumn 2010, Spring 2010, Autumn 2009
- Calculus I TA, Ohio State University: Spring 2012
- Mathematics for Business TA, Ohio State University: Winter 2012, Winter 2010
- College Algebra TA, Ohio State University: Autumn 2011
- Ordinary and Partial Differential Equations TA, Ohio State University: Spring 2011

## Conferences Attended

- Midwest Dynamical Systems Meeting, University of Michigan, November 2014
- Dynamics, Geometry and Groups, IUPUI, October 2014
- 5th Pingree Park Dynamics Workshop, July 2014
- Logic, Dynamics and Their Interactions II, University of North Texas, June 2014
- Ergodic Theory Workshop, UNC Chapel Hill, April 2014
- Informal Analysis Seminar, Kent State University, March 2014

## Awards

- 2013: Special Graduate Appointment, Spring Semester, Ohio State University
- 2008: First-Year Fellowship, Ohio State University
- 2007: Neil Arnott Physics Prize, University of St. Andrews
- 2005: Robert Lincoln McNeil Scholarship for study at University of Pennsylvania