

Tetsuya Ishiu  
Department of Mathematics  
and Statistics  
Miami University  
123 Bachelor Hall  
Oxford, OH 45056  
(513)593-2616

## CURRICULUM VITAE

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### Research Interest

- Set Theory

### Education

- Ph.D., University of California, Irvine, USA, June 2003  
Advisor: Matthew Foreman  
Thesis title: *Club Guessing Sequences and Filters*
- Master's degree, Waseda University, Tokyo, Japan, March 1997
- Bachelor's degree, Waseda University, Tokyo, Japan, March 1995

### Work Experience

- **Assistant Professor** at the Miami University, August 2006–
- **Assistant Professor** at the University of Kansas, August 2003–May 2006
  - Basic calculus and advanced calculus
  - Elementary linear algebra
- **Grader** at the University of California, Irvine, January 1998–June 2003
  - Graduate course: real analysis
  - Upper division: mathematical logic, calculus, and topology
  - Lower division: mathematical logic
- **Tutor** in Mathematics Tutoring Center at the University of California, Irvine, January 1998–June 2003

### External Research Funding

- NSF grant DMS-0700983, 2007-2010, \$92,863

### Publications and Other Papers

- [1] *Directive trees and games on posets* (with Yasuo Yoshinobu), Proceedings of the American Mathematical Society, 130(2002), 1477–1485.
- [2] *A perfectly normal nonrealcompact space consistent with  $\mathfrak{MA}_{\aleph_1}$*  (with Fernando Hernández-Hernández), Topology and Its Applications, 143(1–3)(2004), 175–188.
- [3] *Club guessing sequences and filters*, Journal of Symbolic Logic, 70(4)(2005), 1037–1071.
- [4]  *$\alpha$ -properness and Axiom A*, Fundamenta Mathematicae, 186(2005), 25–37.
- [5] *More on perfectly normal, non-realcompact spaces*, Topology and Its Applications 153(9)(2006), 1476–1499

- [6] *A tail club guessing ideal can be saturated without being a restriction of the non-stationary ideal*, The Notre Dame Journal of Formal Logic, 46(3)(2005), 327–333.
- [7] *The saturation of club guessing ideals*, Annals of Pure and Applied Logic, 142(1–3)(2006), 398–424.
- [8] *A fine structure construction of a perfectly normal, non-realcompact space*, Topology Proceedings, 30(2)(2006), 533–545
- [9] *A non- $D$ -space with large extent*, Topology and Its Applications, 155(11)(2008), 1256–1263
- [10] *Minimality of non  $\sigma$ -scattered orders* (with J. Moore), accepted.
- [11] *Notes on sub-Ostaszewski spaces*, accepted.
- [12] *The precipitousness of tail club guessing ideals*, submitted.
- [13] *The comparison of various club guessing principles* (with P. Larson), in preparation.
- [14] *Club guessing sequences — Natural structures in set theory —* (Japanese), submitted to Sugaku.
- [15] *Some consistency results about the principle (+)*, in preparation.

## Invited Talks

- [1] Set Theory Seminar at Nagoya University, Fall 1996.
- [2] Symposium on Set Theory and Recursion Theory at Kobe University, December 1996.
- [3] Set Theory Seminar at Waseda University, August 2001.
- [4] UCLA Logic Colloquium, April 2002.
- [5] Set Theory Seminar at Waseda University, August 2002.
- [6] UCLA Logic Seminar, March 2003.
- [7] AMS-ASL Joint Meeting at Phoenix, AMS-ASL Special Session in Infinite Combinatorics and Inner Model Theory, January 2004.
- [8] Workshop ‘Singular Cardinal Combinatorics’ at Banff, Canada, May 2004.
- [9] ASL Annual Meeting at the Carnegie Mellon University, Special Session in Set Theory, May 2004.
- [10] Set Theory Seminar at the Boise State University, July 2005.
- [11] Mathematical Logic Seminar at the Carnegie Mellon University, November 2005.
- [12] Topology Seminar at the University of Pittsburgh, November 2005.
- [13] Mid-Atlantic Mathematical Logic Seminar (MAMLS) in honour of Menachem Magidor’s sixtieth birthday at the University of California, Irvine, February 2006.
- [14] The 21st Summer Conference on Topology and its Applications, at the Georgia Southern University, Special Session on Topology and Set Theory, July 2006.
- [15] AMS Central Sectional Meeting at Miami University, Special Session on Large Cardinals in Set Theory, March 2007.
- [16] Boise Extravaganza in Set Theory at Boise State University, March 2008.

- [17] BLAST conference at the University of Denver, August 2008
- [18] AMS Southeastern Sectional Meeting at Huntsville, AL, Special Session on Set-Theoretic Topology, October 2008
- [19] Colloquium at the University of Dayton, March 2009
- [20] Workshop on "Large cardinals and descriptive set theory" at the Erwin Schroedinger Institute in Vienna, June 2009

### **Contributed Talks**

- [1] South Eastern Logic Symposium at the University of Florida, March 2003
- [2] Boise Extravaganza in Set Theory at Boise State University, March 2003
- [3] ASL Annual Meeting at the University of Illinois, Chicago, June 2003
- [4] Boise Extravaganza in Set Theory at Boise State University, March 2005
- [5] AMS-ASL Joint Meeting at San Antonio, January 2006

### **Fellowships**

- Invitation to 'Thematic Program on Set Theory and Analysis' at the Fields Institute with financial support, September–December 2002
- Scholarship from the department at the University of California, Irvine, Fall 1997–Spring 2002
- Okuma Memorial Scholarships at Waseda University, April 1992–March 1995

### **Training**

- Practice teaching in a Japanese high school, 1994. Certified to teach in Japanese high schools.