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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

- Associate Professor at Miami University, August 2012–present
- Assistant Professor at Miami University, August 2006–July 2012
- Assistant Professor (Non-tenure track) at the University of Kansas, August 2003–May 2006

External Research Funding

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

Internal Research Funding

- October 2020: Summer Research Appointment, \$6,200, funded for Summer 2021.
- October 2010: Summer Research Appointment, \$6,200, funded for Summer 2011.
- October 2006: Summer Research Appointment, \$6,200, funded for Summer 2007.

Refereed publications

- A variation of the Mardešić Conjecture, accepted by Topology Proceedings in 2024.
- The Mardešić conjecture for countably compact spaces, Topology and Its Applications 335(2023), Paper No. 108596, 19 pp.
- Archimedean positively ordered semigroups with maximal elements, Semigroup Forum 105 (2022), no. 1, 244–264
- Finite products of connected nowhere separable linearly ordered spaces, Topology and Its Applications, 300 (2021), Paper No. 107763, 21
- Continuous injections between products of two connected nowhere real linearly ordered spaces, Topology Proceedings, 50 (2017), 319–333

- The comparison of various club guessing principles, Annals of Pure and Applied Logic, 166(2015), no. 5, 583–600.
- The termination of the higher-dimensional tarai functions (with M. Kikuchi), Information Processing Letters 115(2015) no. 2, 125-127.
- \mathbb{P}_{max} variations for separating club guessing principles (with P. Larson), Journal of Symbolic Logic 77(2012), no. 2, 532–544
- Some results about (+) proved by iterated forcing (with P. Larson), Journal of Symbolic Logic 77(2012), no. 2, 515–531.
- A sequel to "a space topologized by functions from ω to ω " (with A. Iwasa), Topology Proceedings, 38(2011), 309–312
- Club guessing sequences Natural structures in set theory —(Japanese), Sugaku 62(2)(2010), 453–478(English translation by myself appeared in Sugaku Exposition 26(2013), no. 1, 73–98).
- On possible models of CH without locally compact sub-Ostaszewski spaces, Topology Proceedings, 36(2010), 37–50.
- Minimality of non σ -scattered orders (with J. Moore), Fundamenta Mathematicae, 205(2009), 29–44.
- A non-D-space with large extent, Topology and Its Applications, 155(11)(2008), 1256–1263
- A fine structure construction of a perfectly normal, non-real compact space, Topology Proceedings, 30(2)(2006), 533–545
- The saturation of club guessing ideals, Annals of Pure and Applied Logic, 142(1–3)(2006), 398–424.
- A tail club guessing ideal can be saturated without being a restriction of the non-stationary ideal, Notre Dame Journal of Formal Logic, 46(3)(2005), 327–333.
- More on perfectly normal, non-realcompact spaces, Topology and Its Applications 153(9)(2006), 1476–1499
- α-properness and Axiom A, Fundamenta Mathematicae, 186(2005), 25–37.
- Club guessing sequences and filters, Journal of Symbolic Logic, 70(4)(2005), 1037–1071.
- A perfectly normal nonrealcompact space consistent with MA_{N1} (with Fernando Hernández-Hernández), Topology and Its Applications, 143(1–3)(2004), 175–188.
- Directive trees and games on posets (with Yasuo Yoshinobu), Proceedings of the American Mathematical Society, 130(2002), 1477–1485.

Articles under review

- Perfectly normal nonrealcompact spaces under the Proper Forcing Axiom, submitted to Mathematical Logic Quarterly in December 2023.
- The precipitousness of tail club guessing ideals, submitted to the Journal of Symbolic Logic in December 2022.

Non-refereed publications

• The Weak Diamond, RIMS Kôkyûroku, 2261(2023), 43–46.

Qualitative differences between the real line and nonseparable linearly ordered topological spaces, RIMS Kôkyûroku, 2198(2021), 32–40.

Invited talks at professional conferences

- Special Session on Set Theory and Its Applications, Canadian Mathematical Society Winter Meeting in Toronto, December 2022.
- Special Session on Set-Theoretic Topology, American Mathematical Society Fall Southeastern Section Meeting, online, November 2021
- Special Session on Set-Theoretic Topology, Spring Topology and Dynamics Conference hosted by Murray State University, online, May 2021
- Special Session on Set Theoretic Topology, American Mathematical Society Fall Southeastern Sectional Meeting, at the University of North Carolina, Greensboro, November 2014
- Spring Topology and Dynamics Conference at the University of Richmond, March 2014
- Workshop on 'Large cardinals and descriptive set theory' at the Erwin Schroedinger Institute in Vienna, June 2009
- Special Session on Set-Theoretic Topology, American Mathematical Society Southeastern Sectional Meeting at the University of Alabama Huntsville. October 2008
- BLAST conference at the University of Denver, August 2008
- Boise Extravaganza in Set Theory (BEST) at Boise State University, March 2008.
- Special Session on Large Cardinals in Set Theory, American Mathematical Society Central Sectional Meeting at Miami University, March 2007.
- Special Session on Topology and Set Theory, Summer Conference on Topology and Its Applications, at Georgia Southern University, July 2006.
- Mid-Atlantic Mathematical Logic Seminar (MAMLS) in honour of Menachem Magidor's sixtieth birthday at the University of California, Irvine, February 2006.
- Special Session in Set Theory, Association for Symbolic Logic Annual Meeting at Carnegie Mellon University, May 2004.
- Workshop 'Singular Cardinal Combinatorics' at Banff, Canada, May 2004.
- AMS-ASL Special Session in Infinite Combinatorics and Inner Model Theory, Joint Mathematics Meeting at Phoenix, January 2004.

Invited talks at seminars

- Colloquium at the University of Dayton, February 2018
- Colloquium at the University of Dayton, March 2009
- Topology Seminar at the University of Pittsburgh, November 2005.
- Mathematical Logic Seminar at Carnegie Mellon University, November 2005.
- Set Theory Seminar at Boise State University, July 2005.
- UCLA Logic Seminar, March 2003.
- Set Theory Seminar at Waseda University, August 2002.
- UCLA Logic Colloquium, April 2002.
- Set Theory Seminar at Waseda University, August 2001.

- Set Theory Seminar at Nagoya University, Fall 1996.
- Symposium on Set Theory and Recursion Theory at Kobe University, December 1996.

Contributed talks at professional conferences

- RIMS Set Theory Workshop, 'Forcing and Cardinal Arithmetic', Hybrid at RIMS, Kyoto University, Japan, and on Zoom, October 2022.
- RIMS Set Theory Workshop 'Set Theory: Reals and Topology', on Zoom, November 2020
- Special Session in Large Cardinals in Set Theory, American Mathematical Society Central Sectional Meeting at Miami University, March 2007.
- Joint Mathematics Meeting at San Antonio, January 2006
- Boise Extravaganza in Set Theory at Boise State University, March 2005
- Association for Symbolic Logic Annual Meeting at the University of Illinois, Chicago, June 2003
- Boise Extravaganza in Set Theory at Boise State University, March 2003
- South Eastern Logic Symposium at the University of Florida, March 2003

For more information and preprints, please refer to https://ishiut.github.io.