NAM TRANG CURRICULUM VITAE

CURRENT Position	Visiting Assistant Professor	
Contact Information	Department of Mathematics University of California, Irvine Irvine, CA, 92697-3875	ntrang@uci.edu http://math.uci.edu/~ntrang
UNDERGRADUATE INSTITUTIONS	 September 2004 – June 2007: University of California, Irvine; Irvine, CA, USA August 2002 – June 2004: Saddleback College; Mission Viejo, CA, USA 	
Graduate Institutions	• August 2007 – June 2013: University of Califor	rnia, Berkeley; Berkeley, CA, USA
Degrees	 MS in Information and Computer Science, UC Irvine, 2007. MA in Mathematics, UC Irvine, 2007. PhD in Mathematics, UC Berkeley, 2013. 	
Skills and Interests	 Problem solving, research in mathematics, tead science. Mathematics: logic, set theory, computability the and math finance. Computer science: data structures/algorithm of learning and data science. Proficient in: Latex, Mathlab, C++, Java (s Museum http://3d-xplormath.org), Python (in theano), and TensorFlow. 	ching/advising/mentoring, computer neory, model theory, probability/statistics design and analysis, coding, machine ample codes: see the Virtual Math ncluding matplotlib, numpy, sklearn,
Postdoctoral Institutions	 July 2015 – present: University of California, I August 2013 – June 2015: Carnegie Mellon Un 	rvine; Irvine, CA, USA iversity; Pittsburgh, PA, USA
Awards and grants	 The Howard Tucker Award, Outstanding Senic NSF Grant DMS-1565808, 2016–2019 (PI on titled: "Descriptive Inner Model Theory, Large 	or in Mathematics, UC Irvine, 2007. the NSF research award for project e Cardinals, and Combinatorics").
Synergetic and Educational Activities	 Contributor to the Virtual Math Museum (ht Java code for 3D-XplorMath-J, which is a crochost of interesting mathematical objects and h tion. 2014: Served on Chris Lambie-Hanson's PhD t 2016: Co-advised and served on Daniel Rodrigu Co-organizer of the 2016 Conference on Descrimice, UC Irvine, 18–29 July, 2016. 2016: Participate (as both Assistant and Lear 	ttp://3d-xplormath.org/) by writing pss-platform museum that exhibits a elps learning geometry via visualiza- chesis committee at CMU. uez's PhD thesis committee at CMU. iptive Inner Model Theory and Hod ader) to the UCI Math Circle. The

	 goal of the program is to bring together faculty, graduate students from UCI and high school/middle school students in Orange County with the goal of helping the students explore advanced mathematics and promote mathematical creativity. Participating in the UCI Center for Engaged Instruction's pedagogical programs with the goal of earning a Certificate in Teaching Excellence in Spring 2017. NSF Panelist. Reviewer for the AMS Mathematical Reviews. 2016: Supervising an independent reading course for Paul Smith, an undergraduate student at UCI, on topology and set theory.
Publications	1) Trang, N., HOD in natural models of $AD^+,$ Annals of Pure and Applied Logic, $165(10),2014,1533\text{-}1556$
	2) Trang, N., Determinacy in $L(\mathbb{R},\mu),$ Journal of Mathematical Logic, 14(01), 2014, 23 pages
	3) Sargsyan, G. and Trang, N., Non-tame mice from tame failures of the unique branch hypothesis, Canadian Journal of Mathematics, 66(4), 2014, 903-923
	4) Trang, N., PFA and guessing models, Israel Journal of Mathematics, 215 (2016), 607–667, http://dx.doi.org/10.1007/s11856-016-1390-x.
	5) Trang, N., Structure theory of $L(\mathbb{R},\mu)$ and its applications, Journal of Symbolic Logic, 80(01), 2015, 29-55.
	6) Trang, N., Derived models and supercompact measures on $\wp_{\omega_1}(\wp(\mathbb{R}))$, Mathematical Logic Quarterly, 61(1-2), 2015, 56-65.
	7) Sargsyan, G. and Trang, N., Tame failures of the unique branch hypothesis and models of $AD_{\mathbb{R}}+\Theta$ is regular, Journal of Mathematical Logic, 16(02), 2016, 31 pages, 10.1142/S0219061316500070, .
	8) Shi, X. and Trang, N., I_0 and combinatorics at λ^+ , Archive of Mathematical Logic, 2016, 24 pages, DOI 10.1007/s00153-016-0518-3.
Preprints	9) Steel, J.R. and Trang, N., AD^+ , derived models, and Σ_1 -reflection, 1^{st} Conference on the Core Model Induction and Hod Mice, Institut für Mathematische Logik, WWU Münster, Aug 08–Aug 19, 2011
	10) Rodríguez, D. and Trang, N., $L(\mathbb{R},\mu)$ is unique, submitted to Advances in Mathematics, 2015.
	11) Schlutzenberg, F. and Trang, N., Scales in hybrid mice over \mathbb{R} , submitted to the Annals of Pure and Applied Logic, 2016.
	12) Schlutzenberg, F. and Trang, N., The fine structure of operator mice, submitted to the Archive of Mathematical Logic, 2016.
	13) Wilson, T. and Trang, N., Determinacy from strong compactness of ω_1 , submitted to the Annals of Pure and Applied Logic, 2016.

	14) Ikegami, D., and Trang, N., On a class of maximality principles, submitted to the Archive of Mathematical Logic, 2016.
Books	1) Sargsyan, G., and Trang, N., <i>The largest Suslin axiom</i> , book, submitted to the Springer's Lecture Notes in Logic series, 2016.
Reviewed Articles	1. Wilson, Trevor, The Envelope of a Pointclass under a Local Determinacy Hypothesis, Annals of Pure and Applied Logic.
	2. Schimmerling, Ernest, A Core Model Toolbox and Guide, a book chapter in <i>The Handbook of Set Theory</i> .
	3. Mitchell, William, Inner Models for Large Cardinals, a book chapter in Sets and extensions in the twentieth century.
	4. Fuchs, Gunter and Schindler, Ralf, Inner Model Theoretic Geology, <i>The Journal of Symbolic Logic</i> .
Collaborators	 Matt Foreman, University of California, Irvine; Irvine, CA, USA Daisuke Ikegami, Tokyo Denki University; Tokyo, Japan Daniel Rodriguez, Carnegie Mellon University, USA; currently at Google, Pittsburgh Grigor Sargsyan, Rutgers University; Piscataway, NJ, USA Farmer Schlutzenberg, WWU Münster, Münster, Germany, USA Xianghui Shi, Beijing Normal University; Beijing, China John R. Steel, University of California, Berkeley; Berkeley, CA, USA Trevor Wilson, Miami University; Oxford, OH, USA Martin Zeman, University of California, Irvine; Irvine, CA, USA
Graduate Advisors and Postdoctoral Sponsors	 John R. Steel, University of California, Berkeley; Berkeley, CA, USA (Thesis advisor) Ernest Schimmerling, Carnegie Mellon University; Pittsburgh, PA, USA (Postdoctoral Sponsor) Martin Zeman, University of California, Irvine; Irvine, CA, USA (Postdoctoral Sponsor)