

Revantha Ramanayake

CONTACT INFORMATION

Technische Universität Wien (TU Wien)
Institute of Logic and Computation, Theory and Logic Group, Vienna, Austria.
phone: +43 (0)1 58801-185187 email: revantha@logic.at
homepage: <https://www.logic.at/staffpages/revantha>

RESEARCH INTERESTS

- ▶ Proof theory to study non-classical logics (decidability, complexity, interpolation...)
 - ▶ Structural proof theory: relative expressivity of proof formalisms and their embeddings
 - ▶ The use of combinatorial arguments on proof calculi for proving decidability
 - ▶ Formalising mathematics/proof theory in the interactive theorem prover Isabelle/HOL
 - ▶ Proof-systems for automated reasoning about satisfiability modulo theories (SMT)
- Keywords: theoretical computer science - logic - proof theory - complexity

PROFESSIONAL EXPERIENCE

Senior Post-doctoral Researcher at TU Wien funded by FWF-ANR Transnational project *Translating and discovering calculi for modal and related logics* (since 2017); FWF START project *Non classical proofs: Theory, Applications and Tools* (2012-17);

Post-doctoral Researcher at the Laboratoire d'Informatique de l'X (LIX), École Polytechnique, Palaiseau, France in the PSI project *Proof-Search control in Interaction with domain-specific methods*. 2011-2012.

Data and Systems Analyst, Research Office, The Australian National University (ANU). Mathematical modelling, non-linear constraint optimisation in MATLAB, 2011.

PROJECTS

- ▶ **Principal investigator**. Stiftung Aktion Österreich-Ungarn. Proj. no: 92öu14. Formalisierung der Beweistheorien. 2016-2017.
- ▶ **Co-ordinator** TU Wien. Transnational Funding FWF-ANR, TICAMORE: Translating and Discovering Calculi for Modal and Related logics, 2017-2020

SELECTED PROFESSIONAL ACTIVITIES

- ▶ **Keynote lecture**: Non-classical Logics and Their Applications. The 8th International Workshop on Logic and Cognition (WOLC 2016), Guangzhou (China) 5-9 Dec 2016
- ▶ **Invited Speaker**: 2nd International workshop on Automated Reasoning in Quantified Non-Classical Logics ARQNL 2016, Coimbra (Portugal), 1 July 2016
- ▶ **Invited tutorial** at the TRS Reasoning School, Natal (Brazil) 31 Aug-4 Sep 2015
- ▶ **Invited tutorial**. PhDs in Logic VII. Vienna (Austria) 14-16 May, 2015.
- ▶ **Invited Plenary Speaker**. 6th International Conference on Teaching Logic and Prospects of its Development, Kiev (Ukraine) 15-16 May 2014
- ▶ **Invited tutorial**. 9th International Tbilisi Summer School in Logic and Language, Tbilisi (Georgia) 30 Sep-4 Oct 2013
- ▶ **Tutorial** (with Björn Lellmann) co-located with TABLEAUX 2017, FroCoS 2017 and ITP 2017. Brasilia, Brazil. 23 Sep 2017
- ▶ **Co-chair** of the VCLA International Awards Committee 2018, 2019. Responsible for overseeing all aspects of the Award including the Call, selection of PC, multiple round review process, selection of winners, award ceremony arrangements
- ▶ **PC Member** for numerous international conferences including 20th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 20), The 8th International Workshop on Logic and Cognition (WOLC 2016), International conference on Advances in Modal Logic (AiML 2014), 13th Workshop on Logical and Semantic Frameworks (LSFA 2018).
- ▶ **PC/Organising Committee** member for numerous workshops held at TU Wien including 2nd SYSMICS workshop (2018), Kick-off meeting TICAMORE (2017), ALCOP VII (2016).

TEACHING EXPERIENCE	<ul style="list-style-type: none"> ▶ Lecturer and Course Organiser for the Higher-Order Logic (185.A60) Masters-level course at TU Wien. Summer semester 2016, 2017. Responsible for all aspects (content, teaching, assessment, marking) ▶ Filled-in for primary lecturer for courses on Computability Theory, Discrete Mathematics and Model theory ▶ Teaching assistant in the School of Computer Science, ANU, 2011, for COMP2620 (formal logic course for Computer Science). ▶ Teaching assistant in the Department of Mathematics, ANU, 2008 - 2009, for MATH2301 (Games, Graphs and Machines). Overall effectiveness of teaching: 90% rated as Excellent, Very Good or Good (source: ANUSET) ▶ Teaching assistant in the Department of Mathematics, ANU, 2011, for MATH2320 (Analysis I Honours).
EDUCATION	<ul style="list-style-type: none"> ▶ Doctor of Philosophy (PhD), 2006 - 2011 The Australian National University, Canberra. Supervisor: Prof. Rajeev Goré Thesis title: Cut-elimination for provability logics and some results in display logic https://logic.at/staffpages/revantha/thesis-rev.pdf ▶ Bachelor of Philosophy (Hons), Pure Mathematics, 2002 - 2005 Topics include algebra, algebraic topology, Galois theory, measure theory and complex analysis. Department of Mathematics, The Australian National University, Canberra. Awarded First-class Honours
HONOURS AND AWARDS	<p>Australian Postgraduate Award (APA), 2006-2010 NICTA (National ICT Australia) Supplementary Scholarship, 2006-2010 QBI Short Course in Computational Neuroscience, Scholarship, 2009 Vice-Chancellor's Travel Grant, 2008 Bachelor of Philosophy Scholarship (ANU), 2004-2005 Distinguished Scholar Program in Science (ANU), 2002-2004 ACCS Complex Systems Winter School Scholarship, 2005 Chancellor's Letter of Commendation (ANU), 2002-2005 Hanna Neumann Prize for Mathematics (ANU), 2004 Chancellor's Letter of Commendation (ANU), 2002-2005 Member of the Golden Key International Honour Society</p> <p>Represented Sri Lanka in the International Schools Software Competition 1999 (annual global software coding competition)</p>
LANGUAGES	English, Sinhala, French (B1), German (A2)
OTHER SKILLS	classical piano, choral singing, guitar, boxing, cricket, kayaking, skiing, tennis