

Nikos Tzevelekos

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I am a Senior Lecturer in the School of Electronic Engineering and Computer Science at Queen Mary University of London, and member of the Theory Group.

I work in Theoretical Computer Science and Verification and in particular I study the mathematical meaning of computation. I devise mathematical models of computation, and examine applications thereof to developing methods and tools for formally analysing and verifying code.

Qualifications

- PhD in Computer Science. University of Oxford, UK. 2004-2008
- MSc in Mathematics and Foundations of Computer Science. 2003-2004
Grade: *Distinction*. University of Oxford, UK.
- Diploma in Electrical and Computer Engineering. 1998-2003
Grade: *9.74/10*. National Technical University of Athens, Greece.

Appointments

- Senior Lecturer. Queen Mary University of London. Oct 2016 -
- Lecturer. Queen Mary University of London. Mar 2012 - Sep 2016
- Royal Academy of Engineering Research Fellow. Oct 2011 - Sep 2016
Queen Mary University of London.
- Research Assistant. University of Oxford.
PI: Prof Samson Abramsky. EP/F067607/1. Oct 2008 - Sep 2011
PI: Prof Luke Ong. EP/D037085/1. Mar - Sep 2008

Grants

- T. Cuvillier (PI), D. Ghica (PI) and N. Tzevelekos (PI). Mokapot/Millr: Next Generation Cloud Computing Software Infrastructure. Innovate UK ICUR commercialisation grant, 2020, £50k.
- N. Tzevelekos (PI). System-Level Game Semantics: A unifying framework for composing systems. EPSRC research grant EP/P004172/1, joint with EP/P004490/1 (Birmingham), 2017-2020, £327k.
- N. Tzevelekos (PI). Program Reasoning with Nominal Game Semantics. EPSRC research grant EP/L022478/1, 2014-2015, £100k.
- A. Murawski (PI) and N. Tzevelekos (co-I). Game Semantics for Java Programs. EPSRC research grant EP/J019577/1, 2013-2015, £209k.
- N. Tzevelekos. Game Semantics for Program Analysis. RAEng Research Fellowship, 2011-2016, £446k.

Research awards

- Distinguished Paper Award. *26th ACM SIGPLAN International Conference on Functional Programming (ICFP)*, 2021.

- Kleene Best Student Paper Award. *22nd IEEE Symposium on Logic in Computer Science (LICS)*, 2007.
- Richard Bird Prize. Best MSc thesis, Computing Laboratory, University of Oxford, 2004.

Selected publications

- Vasileios Koutavas, Yu-Yang Lin and Nikos Tzevelekos. From Bounded Checking to Verification of Equivalence via Symbolic Up-to Techniques. *Proceedings of TACAS*, LNCS, pp. 178-195, 2022.
- L. Birkedal, T. Dinsdale-Young, A. Guéneau, G. Jaber, K. Svendsen and N. Tzevelekos. Theorems for Free from Separation Logic Specifications. *Proceedings of the ACM on PL*, Vol. 5, ICFP, 2021.
- A. Murawski and N. Tzevelekos. Game Semantics for Interface Middleweight Java. *Journal of the ACM*, volume 68(1), pp. 4:1-4:51, 2021.
- A. Murawski and N. Tzevelekos. Higher-Order Linearisability. *Journal of Logical and Algebraic Methods in Programming*, volume 104, pp. 86-116, 2019.
- R. Grigore and N. Tzevelekos. History-Register Automata. *Logical Methods in Computer Science*, volume 12(1), 2016.
- A. Murawski and N. Tzevelekos. Nominal Game Semantics. *Foundations and Trends in Programming Languages*, volume 2(4), pp. 191-269, 2016.
- Radu Grigore, Dino Distefano, R. L. Petersen and N. Tzevelekos. Runtime Verification Based on Register Automata. *Proceedings of TACAS*, LNCS 7795, pp. 260-276, 2013.
- N. Tzevelekos. Fresh-Register Automata. *Proceedings of the 38th ACM SIGACT-SIGPLAN Symposium on Principles of Programming Languages (POPL)*, ACM Press, pp. 295-306, 2011.

PhD Students

- Hamza Bandukara, Bisimulation Algorithms for Fresh-Register Automata, current.
- Yu-Yang Lin, Bounded Verification for Higher-Order Stateful Programs, defended Dec 2020.
- Thomas Cuvillier, Nominal Models of Linear Logic, defended Dec 2017.

Selected professional activities

- Programme Coordinator for BSc Programmes in Computer Science. QMUL, since 2018.
- Chair of the Core Computer Science Teaching Group. School of EECS, QMUL, since 2017.
- Reviewer for Royal Academy of Engineering Research Fellowships scheme, since 2017.
- Reviewer for Netherlands Organisation for Scientific Research (NWO), 2019.
- PhD Examiner: Harold Pancho Elliott, University of Sussex, 2021; Conrad Cotton-Barratt, University of Oxford, 2017; Gianluca Mezzetti, University of Pisa, 2014.
- Organising co-chair of *Workshop on Program Equivalence and Relational Reasoning (PERR 2019)*, Joint European Conferences on Theory and Practice of Software (ETAPS 2019). Apr 2019.
- Organising co-chair of *Highlights of Logic, Games and Automata*. London, Sep 2017.
- Organising co-chair of *European Joint Conferences on Theory and Practice of Software (ETAPS 2015)*. London, April 2015.