

CURRICULUM VITÆ  
VASCO THUDICHUM VASCONCELOS  
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**Address** \_ Department of Informatics, Faculty of Sciences, University of Lisbon, Bloco C6—Piso 3, Campo Grande, 1749–016 Lisboa, Portugal. Tel: +351 217 500 608, e-mail: [vmvasconcelos@ciencias.ulisboa.pt](mailto:vmvasconcelos@ciencias.ulisboa.pt), home page: <http://www.di.fc.ul.pt/~vv>.

**Personal data** \_ Portuguese citizen, born on 12 June 1964, married, two children.

**Degrees** \_ B.Sc. in Informatics from Nova University of Lisbon (Portugal), July 1989. M.Sc. and Ph.D. in Computer Science from Keio University (Japan), March 1992 and March 1995. *Habilitation* from Nova University of Lisbon, October 2003.

**Current position** \_ Full professor at the Department of Informatics, Faculty of Sciences, University of Lisbon, since December 2011.

**Previous positions** \_ Associate professor at University of Lisbon (2001–2011). Assistant professor at University of Lisbon (1996–2001). Teaching assistant at Nova University of Lisbon (1995–96). Software developer at Centre for Informatics, University of Porto (1988–89).

**Sabbatical** \_ Kyoto University (fall 2023); University of Glasgow (spring 2020); Kyoto University (fall 2016); University of Sussex (2002–03).

## Research

**Indices** \_ DBLP; Orcid; Google Scholar (Citations: 5387, H-index: 31).

**Positions** \_ Researcher at LASIGE (Reliable Software Systems), since 2007. Researcher at Centre of Informatics and Information Technology, 2003–07. Researcher at Laboratory for Computational Models and Architectures, 1998–2002. Post-doc at project Coordination, Nova University of Lisbon, 1994–95. Researcher at Sony Computer Science Laboratory, Tokyo, 1993–94.

**Participation in projects** \_ *European*. Sensoria (IST–2005–016004), site leader, 2005–09. Mikado (IST–2001–32222), site leader, 2002–05. Linear TMR (ERB4061PL97–0244), 1998–2002. Coordination (Esprit BRA 9102), post-doc, 1994–95.

*USA*. Static Verification of Safe Parallelism, Rice University, 2016. Certified Interfaces for Integrity and Security in Extensible Web-Based Applications, Carnegie-Mellon University–Portugal, 2009–12.

*United Kingdom*. A Distributed Object Calculus and its Implementation, EPSRC, 2003–04.

*Interchange*. Language Design For Web Services (pt-uk), 2008. Context Aware Mobile Systems (pt-pl), 2007. Communication Protocols in Session Types (pt-uk), 2005. Typed Programming Languages for Communicating Object Systems (pt-uk), 2002. Typing the Behavior of Corba Objects (pt-es), 2002.

Semantics of Concurrent Objects (pt-fr), 1998–2001. High-level Concurrent languages (pt-uk), 1998.

*National*. SafeSessions—Safe Concurrent Programming with Session Types, 2021–24.

Confident—Communication Contracts for Distributed Software Development, 2016–18. LS—Liveness, Statically, 2012–2015. Advanced Type Systems for Multicore Programming, 2012–2013. Assertion Types for Object-Oriented Programming, coordinator, 2010–11. Quest for Reliability in Generic Software Components, 2010–12. Space-Time-Types, 2005–08. Contract Based System Development, 2004–06.

Mimo 2002–03. Dicom, coordinator, 1999–2001. Dolphyn 1997–99. Escola 1995–98.

**Five most cited publications** \_ K. Honda, VT. Vasconcelos, and M. Kubo. Language primitives and type discipline for structured communication-based programming. LNCS, 1381:122–138, Springer, 1998 (1150 citations).

- H. Hüttel, I. Lanese, VT. Vasconcelos, L. Caires, M. Carbone, P-M. Deniérou, D. Mostrous, L. Padovani, A. Ravara, E. Tuosto, HT. Vieira, G. Zavattaro. Foundations of session types and behavioural contracts,

ACM Computing Surveys 49(1), 2016 (**274**).

- S.J. Gay, VT. Vasconcelos. Linear type theory for asynchronous session types, *Journal of Functional Programming* 20(01):19–50, 2010 (**242**).

- M. Boreale, R. Bruni, L. Caires, R. De Nicola, I. Lanese, M. Loreti, F. Martins, U. Montanari, A. Ravara, D. Sangiorgi, V. Vasconcelos, and G. Zavattaro. SCC: a service centered calculus. LNCS, 4184:38–57, Springer, 2006 (**204**).

- N. Yoshida and VT. Vasconcelos. Language primitives and type discipline for structured communication-based programming revisited: two systems for higher-order session communication. *ENTCS* 171(4):73–93, 2007 (**196**).

**Supervision** \_ *Post-doc*: Gilda Ferreira, Sep 2015–Jan 2018; Hugo Andrés López, Mar 2014–May 2015; Giovanni Bernardi, Mar–Jun 2014; Pedro Baltazar, Mar–Dec 2011; Kohei Suenaga, Apr 2010–Mar 2011; Dimitris Mostrous, Sep 2009–Feb 2011; Marco Giunti, Apr 2008–Mar 2009; Luís Cruz-Filipe, Feb–Sep 2007; Francisco Martins, Feb–Sep 2006.

*Ph.D.*: Joana Campos, *Adding Dependent Types to Class-based Mutable Objects*, 2018. Francisco Martins, *Controlling Security Policies in a Distributed Environment*, 2006. António Ravara, *Typing Non-Uniform Concurrent Objects*, 2000. Luís Lopes, *Design and Implementation of an Object-Oriented Language based on a Process Calculus*, 1999.

*M.Sc.*: supervised eighteen students.

## Scientific Community

**Programme and Conference Chair** \_ SPLASH 2023 (general chair), POPL 2019 (local organising chair), PLACES 2008, 2011, 2014, 2017 (programme co-chair), COORDINATION 2009 (programme co-chair), CONCUR 2007 (programme co-chair), ICALP 2005 (workshop chair), ECOOP 1999 (general chair).

**Programme Committee** \_ OOPSLA 2023; ECOOP 2006, 2022, 2023; ESOP 2021, 2015–16; FORTE 2023; COORDINATION 2010–13, 2016–17; Onward 2016; CONCUR 2015, 2017, 2020; ICTAC 2015; PLACES 2009–10, 2014; Linearity 2014; 4PAD 2014; BEAT 2013; WS-FM 2009, FMOODS 2005–06, FGC 2003, ICALP 2002.

**Jury** \_ *Ph.D.*: Member in 41, of which four in France, four in Italy, one in UK and one in Sweden.

*Habilitation*: Member in 10.

**Invited Talks** \_ PLACES 2023. CONCUR 2014. BETTY Summer School, 2014. International Workshop on Behavioural Types, 2013. PPDP, 2009. International School on Formal Methods for the Design of Computer, Communication and Software Systems, 2009. Globan Summer School, 2006.

**Affiliations** \_ Portuguese Logic Society since 2022 (founder and board member). AITO (Association Internationale pour les Technologies Objets) since 1998 (vice-president 2002–11). Euro-Par Conference, since 1999. Association for Computing Machinery (ACM), since 1990. European Association for Theoretical Computer Science (EATCS), since 1997.

## Teaching

Taught a number of Graduate and Undergraduate courses, first at New University of Lisbon, then at University of Lisbon, namely, Foundations of Programming Languages; Design and Analysis of Algorithms; Software Verification; Software Testing; Compiler Construction; Object-Oriented Program Development; Algorithms and Data Structures; Foundations of Programming Languages; Introduction to Programming; Concurrent Programming; Functional Programming; Logic for Computer Science; Theory of Computation.