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Education

Sep. 2014. **Doctor en Software y Sistemas (PhD in Computer Science)**. Universidad Politécnica de Madrid, Spain.

Sep. 2009. **Máster en Tecnologías para el Desarrollo de Sistemas Software Complejos (MSc in Computer Science)**. Universidad Politécnica de Madrid, Spain.

Dec. 2007. **Ingeniero Informático (5-year degree in Software and Computer Engineering)**. Universidad Politécnica de Madrid, Spain.

Jul. 2003. **Ingeniero Técnico en Informática de Sistemas (3-year degree in Software and Computer Engineering)**. Universidad de Salamanca, Spain.

Sep. 1997. **5 years completed of 6-year BMus degree in the speciality of Viola**. Conservatorio Profesional de Música de Salamanca, Spain.

Employment

From Jan. 2017. **Postdoctoral researcher**. IMDEA Software Institute, Madrid, Spain.

Sep. 2014-Dec 2016. **Postdoctoral researcher**. ICE-TCS, School of Computer Science, Reykjavik University, Iceland.

Jul. 2008-Aug. 2014. **Predocctoral researcher**. IMDEA Software Institute, Madrid, Spain.

Apr. 2006-Jun. 2008. **Computing Technician**. Rectorate of the Universidad Politécnica de Madrid, Spain.

Feb.-Sep. 2006. **Programming Instructor**. ESNE (University School of Design, Innovation and Technology), Madrid, Spain.

Teaching activities

Aug.-Dec. 2016. **T-519-STOR: Theory of Computation** (6 ECTS, teaching assistant), School of Computer Science, Reykjavik University.

Aug.-Dec. 2015. **T-519-STOR: Theory of Computation** (6 ECTS, teaching assistant), School of Computer Science, Reykjavik University.

Feb.-Jun. 2006. **Programming II** (6 ECTS, full instructor), ESNE (University School of Design, Innovation and Technology), Madrid, Spain.

Feb.-Jun. 2006. **Introduction to Computer Game Development** (6 ECTS, full instructor), ESNE (University School of Design, Innovation and Technology), Madrid, Spain.

Publications

Journal articles

Mar. 2017. Aceto, L., Fábregas, I., **García-Pérez, A.**, Ingólfssdóttir, A. A unified rule format for bounded nondeterminism in SOS with terms as labels. *Logical and Algebraic Methods in Programming*, In Press. doi:10.1016/j.jlamp.2017.03.002

May. 2016. **García-Pérez, A.** and Nogueira, P. No solvable lambda-value term left behind. *Logical Methods in Computer Science*, 12(2:12):1–43(2016). arXiv:1604.08383v3

Dec. 2014. **García-Pérez, A.** and Nogueira, P. On the syntactic and functional correspondence between hybrid (or layered) normalisers and abstract machines. *Science of Computer Programming*, 95:176–199(2014). doi:10.1016/j.scico.2014.05.011

Peer-reviewed conference and workshop articles

Jan. 2014. **García-Pérez, A.**, Nogueira, P. and Sergey, I. Deriving interpretations of the gradually-typed lambda calculus. In *Proceedings of the ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation*, pages 157–168. ACM. doi:10.1145/2543728.2543742

Sep. 2013. **García-Pérez, A.**, Nogueira, P. and Moreno Navarro, J. J. Deriving the full-reducing Krivine machine from the small-step operational semantics of normal order. In *Proceedings of the International Symposium on Principles and Practice of Declarative Programming*, pages 85–96. ACM. doi:10.1145/2505879.2505887

Jan. 2013. **García-Pérez, A.** and Nogueira, P. A syntactic and functional correspondence between reduction semantics and reduction-free full normalisers. In *Proceedings of the ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation*, pages 107–116. ACM. doi:10.1145/2426890.2426911

Book chapters

Jan. 2016. Aceto, L., **García-Pérez, A.**, Ingólfssdóttir, A. Rule formats for bounded nondeterminism in structural operational semantics. In *Semantics, Logics, and Calculi – Essays Dedicated to Hanne Riis Nielson and Flemming Nielson on the Occasion of Their 60th Birthdays*, volume 9560 of LNCS, pages 313–343. Springer. doi:10.1007/978-3-319-27810-0_16

PhD dissertation

Sep. 2014. **García Pérez, A.** *Operational aspects of full reduction in lambda calculi*. Departamento de Lenguajes, Sistemas Informáticos e Ingeniería de Software. Escuela Técnica Superior de Ingenieros Informáticos. Universidad Politécnica de Madrid, Spain.

Contributions at international workshops

Oct. 2015. Aceto, L., Fábregas, I., **García-Pérez, A.**, and Ingólfssdóttir, A. Rule formats for bounded nondeterminism in nominal structural operational semantics. *Nordic Workshop on Programming Theory (NWPT 2015)*, Reykjavík, Iceland.

Sep. 2014. **García-Pérez, A.** and Nogueira, P. A standard theory for the pure lambda-value calculus. *International Workshop on Domain Theory and Applications (Domains XI)*, Paris, France.

Jul. 2010. **García-Pérez, A.**, Nogueira, P. and Gallego Arias, E. J. The beta cube. *International Workshop on Strategies in Rewriting, Proving, and Programming (IWS 2010)*, Edinburgh, UK.

Nov. 2007. **García Pérez, A.** and Medinilla Martínez, N. The ambiguity criterion in software design. *International Workshop on Living with Uncertainty (IWLU 2007)*, Atlanta, Georgia, US.

Other publications

Jun. 2009. García-Pérez, A. and **García-Pérez, Á.** La afinación de la flauta tradicional salmantina de tres agujeros. *Revista de Musicología*, 22(2):343–361(2009). Sociedad Española de Musicología, Madrid, Spain.

Nov. 2008. García-Pérez, A. and **García-Pérez, Á.** La afinación de la flauta tradicional salmantina de tres agujeros. In *Actas del VII Congreso de Musicología de la Sociedad Española de Musicología*, Cáceres, Spain.

Academic Service

Organising committees:

Oct. 2015. *Nordic Workshop on Programming Theory (NWPT 2015)*, Reykjavik University, Iceland.

Jun. 2012. *11th International Conference on Mathematics of Program Construction (MPC 2012)*, Universidad Complutense de Madrid, Spain.

Journal refereeing: JLAMP 2015, AI 2014.

Conference/workshop refereeing: ICTCS 2016, CONCUR 2016, MFCS 2016, NWPT2015, CONCUR 2015, LOPSTR 2013, LPAR 2011, WFLP 2010.

Presentations and talks

Presentations at international conferences and workshops

Jan. 2016. *Rule formats for bounded nondeterminism in structural operational semantics. Semantics, Logics, and Calculi – Essays Dedicated to Hanne Riis Nielson and Flemming Nielson on the Occasion of Their 60th Birthdays*, Copenhagen, Denmark.

Oct. 2015. *Rule formats for bounded nondeterminism in nominal structural operational semantics*. Nordic Workshop on Programming Theory (NWPT 2015), Reykjavík, Iceland.

Sep. 2014. *A standard theory for the pure lambda-value calculus*. International Workshop on Domain Theory and Applications (Domains XI), Paris, France.

Jan. 2014. *Deriving interpretations of the gradually-typed lambda calculus*. ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation (PEPM 2014), San Diego, California, US.

Sep. 2013. *Deriving the full-reducing Krivine machine from the small-step operational semantics of normal order*. International Symposium on Principles and Practice of Declarative Programming (PPDP 2013), Madrid, Spain.

Jan. 2013. *A syntactic and functional correspondence between reduction semantics and reduction-free full normalisers*. ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation (PEPM 2013), Rome, Italy.

Jul. 2010. *The beta cube*. International Workshop on Strategies in Rewriting, Proving, and Programming (IWS 2010), Edinburgh, UK.

Nov. 2007. *The ambiguity criterion in software design*. International Workshop on Living with Uncertainty (IWLU 2007), Atlanta, Georgia, US.

Selected seminar presentations and talks

May. 2016 *No solvable lambda-value term left behind*. ICE-TCS Theory Week, Reykjavik University, Iceland.

Oct. 2014 *Operational aspects of full reduction in lambda calculi*. ICE-TCS Seminar, Reykjavik University, Iceland.

Apr. 2014 *Reasoning about structural operational semantics in a calculus of closures*. ICE-TCS Seminar, Reykjavik University, Iceland.

Jul. 2013 *Deriving interpretations of the gradually typed lambda calculus*. Student Talks Session, Oregon Programming Languages Summer School, Eugene, Oregon, USA.

Jul. 2013 *Deriving interpretations of the gradually typed lambda calculus*. PL Group, Aarhus University, Denmark.

Feb. 2013 *A syntactic and functional correspondence between reduction semantics and reduction-free full normalisers*. PL Group. Aarhus University, Denmark.

Mar. 2011. *The beta cube*. Programming, Logic and Semantics Group, IT University, Copenhagen, Denmark.

Funding received

Dec. 2008. **Community of Madrid Grants for Assistant Researchers**. Nr. 3115/2008, 19 June, from Consejería de Educación, Madrid Community Government, Spain.

Research projects

Form Jan. 2017. **RACCOON (A Rigorous Approach to Consistency in Cloud Databases)**, H2020 European Research Council. Ref. 714729

Jan. 2014-Dec. 2016. **NOSOS (Nominal structural operational semantics)**, Icelandic Research Fund. Principal Investigator: Luca Aceto. Ref. 141558-051.

Jan. 2013-Dec. 2016 **STRONGSOFT (Rigorous technologies for new-generation, open, and reliable software)**, Ministerio de Economía y Competitividad, Government of Spain. Principal Investigator: Gilles Barthe. Ref. TIN2012-39391-C04-01.

Jan. 2010-Dec. 2012. **DESAFIOS10 (Development of reliable, distributed, safe, and high-quality software)**, Ministerio de Ciencia e Innovación, Government of Spain. Principal Investigator: Narciso Martí Oliet. Ref. TIN2009-14599-C03-00.

Visiting fellowship

Jan.-Apr. 2011. **Computer Science Department at Aarhus University**. Visiting PhD student, Aarhus, Denmark. Host: Olivier Danvy.

May.-Jun. 2009 and Oct.-Nov. 2009. **Oxford University Computing Laboratory**. Visiting PhD student, Oxford, UK. Host: Jeremy Gibbons.

International schools

Oct. 2016. **Autumn School “Proof and Computation”**. Fischbachau, Alemania.

Aug. 2013. **Oregon Programming Languages Summer School (OPLSS 2013)**. Eugene, Oregon, US.

Feb. 2012. **Logic and Interaction (LI 2012): Proofs and Programs**. Marseille, France.

Mar. 2010. **International Spring School on Generic and Indexed Programming (SSGIP 2010)**. Oxford, UK.

Other courses

Jan. 2007. *Vignette V7 Content Management, Portal and Records Suite*. 120 hours. Universidad Politécnica de Madrid, Spain.

Dec. 2005. *Thinking and Feeling Science*. 20 hours. Universidad Autónoma de Madrid, Spain.

Jul. 2001. *Advanced Programming in Visual C++*. 40 hours. Universidad de Salamanca, Spain.

Technical skills

Programming languages (strong knowledge): Lisp/Scheme, Standard ML, Haskell, Java, C, C++, C#.

Interactive proof assistants: Coq, Agda.

Web development: PHP, JSP, JavaEE.

Web and database administration: Apache, Tomcat, Oracle, MySQL, Postgree.

Prizes and awards

Jul. 2003. **Opera-Web Award**. *Design of a Web portal on the works by Richard Wagner*. Cátedra Telefónica de la Universidad Pompeu Fabra - Gran Teatre del Liceu, Barcelona, Spain.

Language skills

Mother tongue: Spanish.

Self-assessment based on Common European Framework of Reference for Languages.

Languages	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
French	B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user