Álvaro García Pérez

http://babel.ls.fi.upm.es/~agarcia/
alvaro.garcia.perez@imdea.org

Interests

Distributed ledgers, software verification and formal methods

Education

Universidad Politécnica de Madrid, Spain
Doctor en Software y Sistemas — Sep. 2014
Máster de Investigaciónen Tecnologías para el Desarrollo de Sistemas Software Complejos — Sep. 2009
Ingeniero Informático — Dec. 2007

Universidad de Salamanca, Spain
Ingeniero Técnico en Informática de Sistemas — Jul. 2003

Positions

IMDEA Software Institute, Madrid, Spain
Postdoctoral researcher — Jan. 2017—Dec. 2019

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

IMDEA Software Institute, Madrid, Spain
Predoctoral researcher — Jul. 2008—Aug. 2014

Rectorado de la Universidad Politécnica de Madrid, Spain
Computing technician — Apr. 2006—Jun. 2008

ESNE (Escuela Universitaria de Diseño, Inovación y Tecnología), Madrid, Spain
Programming instructor — Feb. 2006—Jun. 2006

Teaching

ICE-TCS, School of Computer Sicence, Reykjavik University, Iceland
T-519-STOR/T-719-STO4: Theory of Computation (8 ETCS) — Aug.—Dec. 2016
T-519-STOR: Theory of Computation (8 ETCS) — Aug.—Dec. 2015

ESNE (Escuela Universitaria de Diseño, Inovación y Tecnología), Madrid, Spain
INF-1203: Programación II (6 ECTS) — Feb.—Jun. 2006
AC-0201: Introducción al Desarrollo de Software II (6 ECTS) — Feb.—Jun. 2006

Selected publications

Álvaro García-Pérez and Maria A. Schett. Deconstructing Stellar consensus. In *23rd International Conference on Principles of Distributed Systems (OPODIS 2019)*, volume 153 of *LIPIcs*, pages 4:1–4:16. Schloss Daghstul, 2019

Luca Aceto, Ignacio Fábregas, **Álvaro García-Pérez**, Anna Ingólfsdóttir, and Yolanda Ortega-Mallén. Rule formats for nominal process calculi. *Logical Methods in Computer Science*, 15(4):2:1–2:46, 2019

Álvaro García-Pérez and Pablo Nogueira. The full-reducing Krivine abstract machine KN simulates pure normal-order reduction in lockstep: A proof via corresponding calculus. *Journal of Functional Programming*, 29(E7):1–38, 2019

Álvaro García-Pérez and Alexey Gotsman. Federated Byzantine quorum systems. In *22dn International Conference on Principles of Distributed Systems (OPODIS 2018)*, volume 125 of *LIPIcs*, pages 17:1–17:16. Schloss Daghstul, 2018

Álvaro García-Pérez, Alexey Gotsman, Yuri Meshman, and Ilya Sergey. Paxos consensus, deconstructed and abstracted. In *Proceedings of the European Symposium on Programming (ESOP 2018)*, volume 10801 of *LNCS*, pages 912–939. Springer, 2018

Luca Aceto, Ignacio Fábregas, **Álvaro García-Pérez**, Anna Ingólfsdóttir, and Yolanda Ortega-Mallén. Rule formats for nominal process calculi. In *28th International Conference on Concurrency Theory (CONCUR 2017)*, volume 85 of *LIPIcs*, pages 10:1–10:16. Schloss Dagstuhl, 2017

Languages

English: fluent **Spanish:** native **French:** intermediate

Skills

Programming languages: Proficient in Haskell, ML, C, C++, Java and C#. Familiar with Coq, Agda, Lisp/Scheme, PHP, JSP, SQL and shell scripting.
System administration: Familiar with Apache, Tomcat, Oracle, MySQL and Postgree.