

Jean-Baptiste Tristan

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Gallium team
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Education

Post-doctoral fellow, Harvard University.

Former student at the Ecole Normale Supérieure of Paris.

B.S. Computer Science, University of Paris 7, 2004.

M.S. Computer Science, Ecole Normale Supérieure of Paris, 2006.

Ph.D. Computer Science, INRIA, 2009.

Research Fields

Formal verification of programs, compilers, program transformations, software safety, mechanized proofs, semantics, language design and implementation, translation validation.

Academic Experience

Harvard University, Department of Computer Science

Concurrency in a Portable Assembly Language, supervised by Norman Ramsey, Spring and summer 2005.

INRIA, Gallium team

Verified Translation Validation: *a posteriori* Formal Proofs of Semantics Preservation, supervised by Xavier Leroy, March 2006 – Septembre 2009.

Microsoft Research-INRIA Joint laboratory

Formal verification of the Paxos consensus algorithm as a mean to test the TLA+ Proof System. supervised by Damien Doligez, September 2009 – December 2009.

Harvard university

Post-doctoral fellow. supervised by Greg Morrisett, December 2010 – December 2011.

Industrial Experience

Exalead

Parsing and Analysis of Javascript code, supervised by Patrice Bertin, Summer 2004.

Publications

Ph.D. dissertation

Formal Verification of Translation Validators (2009). Supervised by Xavier Leroy. Reviewed by George Necula and Thomas Jensen.

Publications in Refereed Conferences

A Simple, Verified Validator for Software Pipelining in *International Symposium on Principles of Programming Languages (POPL 2010)*, with Xavier Leroy (2010).

Verified Validation of Lazy Code Motion in *Conference on Programming Language Design and Implementation (PLDI 2009)*, with Xavier Leroy (2009).

Formal Verification of Translation Validators: A Case Study on Instruction Scheduling Optimizations in *International Symposium on Principles of Programming Languages (POPL 2008)*, with Xavier Leroy (2008).

Talks

Conference Presentations

ACM Sigplan Conference on Programming Languages Design and Implementation, Dublin, June 18, 2009.

International Symposium on Principles of Programming Languages, San Francisco, January 10, 2008.

Professional Activities

Refereeing

ACM Transactions on Programming Languages and Systems (1)

Software Practice and Experience (1)

Miscellaneous

Computer Skills

Ocaml, C, Coq, L^AT_EX, TLA+.

References

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