

## BENJAMIN WERNER

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### Professional Preparation

- Graduation Ecole Polytechnique, 1989.
- D.E.A. (M.S.) in Computer Science from Ecole Polytechnique and D.E.A. in Mathematical Logic from Université Denis-Diderot, Paris, 1990.
- Ph.D. in Computer Science, Université Denis-Diderot, may 1994.

### Appointments

- 1994–present, Researcher, INRIA.
- 1994, Post-doc (funded by INRIA) at Cornell University and Ryukoku University (Kyoto, Japan).
- 1989-1993, Graduate student funded by a french government grant.
- 1986-1989, Student of Ecole Polytechnique (administrative status of a french army officer).

### Five Related Publications

- B. Werner. On the strength of proof-irrelevant type theories. *Proceedings of the Third International Joint Conference, IJCAR 2006, 2006*, Seattle, WA, USA, August 17-20, pages 604-618, LNAI 4130, Springer-Verlag, 2006.
- B. Grégoire, L. Théry and B. Werner. A Computational Approach to Pocklington Certificates in Type Theory. *Functional and Logic Programming, 8th International Symposium, FLOPS 2006, Fujisusono, Japan, April 24-26, 2006, Proceedings*, pages 97-113, LNCS 3945, Springer-Verlag, 2006.
- A. Miquel and B. Werner. The Not So Simple Proof-Irrelevant Model of CC. *Proceedings of TYPES 2002*, pages 240-258, LNCS 2646, Springer-Verlag, 2002.
- B. Werner. Sets in Types, Types in Sets. *Theoretical Aspects of Computer Software, Third International Symposium, TACS '97*, Sendai, Japan, September 23-26, 1997. LNCS 1281, Springer-Verlag, 1997.
- P.-A. Mellès and B. Werner. A Generic Normalisation Proof for Pure Type Systems. *Proceedings of TYPES 1996*. LNCS 1512, Springer-Verlag, 1998.

### Five Other Publications

- G. Dowek and B. Werner. Proof Normalization Modulo. *Journal of Symbolic Logic*, vol. 68(4), pages 1289-1316. 2003.
- G. Dowek and B. Werner. Arithmetic as a theory modulo. *Term Rewriting and Applications, 16th International Conference, RTA 2005*, Nara, Japan, April 19-21, 2005. LNCS 3467, Springer-Verlag, 2005.

- M. Abadi, G. Gonthier and B. Werner. Choice in dynamic linking. *Foundations of Software Science and Computation Structures, 7th International Conference, FOSSACS 2004*, Barcelona, Spain, March 29 - April 2, 2004. LNCS 2987, Springer-Verlag, 2004.
- H. Geuvers and B. Werner. On the Church-Rosser Property for Expressive Type Systems and its Consequences for their Metatheoretic Study. *Proceedings, Ninth Annual IEEE Symposium on Logic in Computer Science*, 4-7 July 1994, Paris, France. IEEE, 1994.
- J.-C. Filliâtre, C. Paulin-Mohring and B. Werner. *Types for Proofs and Programs, International Workshop, TYPES 2004, Jouy-en-Josas, France, December 15-18, 2004, Revised Selected Papers*. LNCS 3839, Springer-Verlag, 2005.

### **Synergistic Activities**

- Leader of the LogiCal project team of INRIA since 2006.
- Member of the organizing committee of TYPES 2004 and co-editor of the proceedings (LNCS).
- Participated to the formal proof of the four-color theorem in Coq.

### **Collaborators and Other Affiliations**

- *Collaborators*: Martin Abadi (UCSC), Gilles Dowek (Ecole Polytechnique), Jean-Christophe Filliâtre (CNRS), Georges Gonthier (Microsoft Research), Benjamin Grégoire (INRIA Sophia-Antipolis), Christine Paulin-Mohring (Université Paris sud), Makoto Tatsuta (NII, Tokyo), Laurent Théry (INRIA-Sophia-Antipolis).
- *Graduate Advisor*: Christine Paulin-Mohring (Université Paris-sud).
- *Graduate Students Advised*. Total Number: 5. Current PhD Students: Roland Zumkeller, Arnaud Spiwack (together with Thierry Coquand). Already Graduated: Bruno Barras (INRIA), David Delahaye (CNAM), Benjamin Grégoire (co-advised with X. Leroy; now INRIA).
- *PostDoctoral Scholars Sponsored*. Total Number: 1. Gyesik Lee.