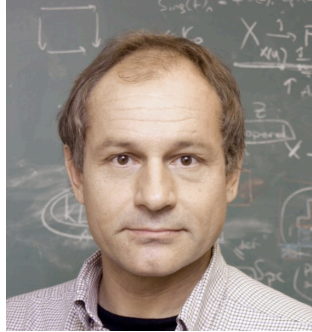


# Curriculum Vitae



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## Profil osobisty

- ◉ data urodzenia: 24/9/1959;
- ◉ hobbies: wspinaczka i alpinizm, surfing;
- ◉ języki obce:
  - w mowie (perfekt) i piśmie (perfekt): francuski, niemiecki, angielski;
  - w mowie (płynnie): włoski, hiszpański.

## Profil profesjonalny

- ▶ topologia algebraiczna;
- ▶ informatyka teoretyczna;
- ▶ teoria i narzędzia specyfikacji i weryfikacji programów.

## Tytuły

- ✓ Diplomerter Informatiker, ETH, 1991.
- ✓ Docteur ès Sciences, EPFL, 2000.

## Doświadczenie profesjonalne

- ▶ 1982-1987: działalność gospodarcza jako programista;
- ▶ 1991-1993: inżynier R&D, STA Engineering, Zürich;
- ▶ 1994-1995: inżynier projektowy, Département d'Informatique, EPFL, Lausanne;
- ▶ 1995-2000: doktorant, Département d'Informatique, EPFL, Lausanne;

- ▶ 2000-2002: pracownik naukowy, Département d'Informatique, EPFL, Lausanne;
- ▶ 2003-2005: działalność gospodarcza jako konsultant;
- ▶ 2005-2007: postdoctoral fellow, Department of Mathematics, The University of Western Ontario, London ON;
- ▶ 2007: visiting researcher, Laboratoire d'Informatique (LIX), École Polytechnique, Paris;
- ▶ 2007: visiting researcher, Institut de Mathématiques de Luminy (IML), Université Aix-Marseille 2, Marseille;
- ▶ 2007-2008: adiunkt, AGH, Kraków.

## Publikacje i preprinty

- ✓ *Algorithmic Factorization of Polynomials*, praca magisterska, ETHZ, 1991.
- ✓ *Components and Synchronous Communication in Categories of processes*, PhD thesis nr. 2131, EPFL, 2000.
- ✓ *Concrete Process Categories*, Electronic Notes in Theoretical Computer Science 68(1), 2003.
- ✓ *Paths and Simulations*, Electronic Notes in Theoretical Computer Science 69, 2003.
- ✓ *A verification methodology for infinite-state message-passing systems*, z Ch. Sprenger. Proceedings of MEMOCODE'03, IEEE-Press, 2003.
- ✓ *A verification methodology for concurrent software with synchronous communication*, z Ch. Sprenger. A chapter of the book *Formal methods and models for system design*, Kluwer Academic Publishers, 2004.
- ✓ *Simulations as Homotopies*, z K.Hess, P.E.Parent and A.Tonks. Electronic Notes in Theoretical Computer Science 100, 2004.
- \* *Synchronization from a categorical perspective*, Preprint, [arxiv.org/abs/cs/0411001](http://arxiv.org/abs/cs/0411001), 2005.
- \* *Bisimulation of enrichments*, z V.Schmitt. Preprint, [arxiv.org/abs/cs/0602077](http://arxiv.org/abs/cs/0602077), 2006.
- ✓ *A model category structure for local po-spaces*, z P.Bubenik. Homology, Homotopy and Applications 8(1), 2006.
- ✓ *A model structure à la Thomason on 2-Cat*, z K.Hess, P.E.Parent and A.Tonks. Journal of Pure and Applied Algebra 208(1), 2007.
- \* *A folk model structure for  $\omega$ -cat*, z Y.Lafont and F.Métayer. Preprint, [arxiv.org/abs/0712.0617](http://arxiv.org/abs/0712.0617), 2007. Złożenie do Advances in Mathematics w przygotowaniu.
- \* *Some remarks on locally ordered spaces*. Preprint, [arxiv.org/abs/0808.1820](http://arxiv.org/abs/0808.1820), 2008. Złożona do Homology, Homotopy and Applications.

## Uczestnictwo w programach tematycznych

- ★ *Computational applications of algebraic topology*:
  - ▶ Mathematical Sciences Research Institute (MSRI), Berkeley CA.
  - ▶ 15/8/2006 - 15/12/2006, resident researcher.
- ★ *Geometrical applications of homotopy theory*:
  - ▶ Fields Institute, Toronto ON.
  - ▶ 1/1/2007 - 30/6/2007, resident researcher.

## Odczyty

- *Bereichstheoretische Semantik des polymorphen  $\lambda$ -Kalküls*. Seminar "Theoretische Informatik und Logik", Universität Bern, 1995;
- *On the abstract interpretation of the polymorphic  $\lambda$ -calculus*. MFPS, Boulder CO, 1996;

- *Simulations of Imperative Programs*. Seminarium, Instituto Superior Técnico, Lizbona, 2001;
- *Generalized Simulations and Bimodular Modal Logic*. Seminarium, University of Calgary, 2002;
- *Generalized Simulations and Bimodular Modal Logic*. MFPS, New Orleans LA, 2002
- *Paths and Simulations*. CTCS, Ottawa ON, 2002;
- *Concrete Process Categories*. CMCTS, Brno, 2002;
- *Simulations as Homotopies*. GETCO, Marseille, 2003;
- *A Thomason Model Structure on 2-Cat*. PSSL, Cambridge, 2004;
- *Basic triangulated categories*. Seminarium, University of Western Ontario, London ON, 2005;
- *Triangulated categories and representations of quivers*. Seminarium, University of Western Ontario, London ON, 2005;
- *Tensor products in triangulated categories via Auslander-Reiten translations*. Seminarium, University of Western Ontario, London ON, 2005;
- *Model categories in directed topology I&II*. Geocal'06, Marseille, 2006;
- *An overview of concurrency theory I&II*. Seminarium, MSRI, Berkeley CA, 2006;
- *Simulations of higher dimensional automata as homotopies*. Seminarium, MSRI, Berkeley CA, 2006;
- *Grothendieck topologies from stable classes of morphisms*. Seminarium, MSRI, Berkeley CA, 2006;
- *Espaces localement ordonnés*. Seminarium, École Polytechnique, Paris, 2007;
- *Faisceaux et structures de modèles sur les espaces localement ordonnés*. Seminarium, LIX, École Polytechnique, Paris, 2007;
- *A folk model structure for  $\omega$ -cat*. PSSL meeting, Nancy, France, 2007;
- *Espaces localement ordonnés en tant que faisceaux*. Seminarium, IML, Marseille, 2007;
- *Locally ordered spaces as sheaves*. Invited talk, ATMCS, Paris, 2008;
- *On a theorem of J. Smith and its applications*. Seminarium Topologii Algebraicznej, Uniwersytet Warszawski, Warszawa, 2008.

## Recenzje

- ▶ Homology, Homotopy and Applications.
- ▶ Journal of Pure and Applied Algebra.

## Kontakty naukowe

- ▶ Peter Bubenik. Cleveland State University, Cleveland OH.
- ▶ Eric Goubault. CEA/École Polytechnique, Paris.
- ▶ Kathryn Hess, EPFL, Lausanne.
- ▶ Rick Jardine, University of Western Ontario, London ON.
- ▶ Yves Lafont. Institut de Mathématiques de Luminy, Marseille.
- ▶ François Métayer, PPS, Université Paris 7, Paris.
- ▶ Paul-Eugène Parent, Ottawa University, Ottawa ON.
- ▶ Vincent Schmitt. Leicester University, Leicester.
- ▶ Christoph Sprenger, ETH, Zürich.

## Dydaktyka

- ▶ *Processes and behavioral equivalence.*  
Szkoła doktorska, EPFL, semestr letni 2000:
  - process algebras
  - concurrent processes and CCS;
  - mobile processes and the  $\pi$ -calculus.
- ▶ *Discrete structures I.*  
University of Western Ontario, semestr zimowy 2005:
  - first-order logic;
  - combinatorics;
  - group theory;
  - coding theory.
- ▶ *Discrete structures II.*  
University of Western Ontario, semestr letni 2006:
  - number theory;
  - cryptography;
  - graph theory.
- ▶ *Programacja funkcyjna w OCAML.*  
Katedra Informatyki Stosowanej, GGiOŚ, AGH, semestr letni 2008:
  - core language;
  - modules and functors;
- ▶ *Metody formalne w informatyce.*  
Katedra Informatyki Stosowanej, GGiOŚ, AGH, semestr letni 2008:
  - matematyka dyskretna;
  - logika predykatów intuicjonistyczna;
  - ekstrakcja programów OCAML z dowodów w COQ;
  - logika czasowa LTL;
  - model checking programów JAVA w Java Pathfinder.
- ▶ *Laboratorium kompilacji.*  
Katedra Informatyki, AEiI, AGH, semestr zimowy 2008/2009.
  - LARL parsing;
  - generowanie kodu MIPS (symulator SPIM).