

Curriculum Vitae

Paul van Tilburg

Personal Data

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Born: 17 April, 1980 in Breda, The Netherlands
Nationality: Dutch

Education

- Aug 2007–Oct 2011 Doctor of Philosophy in Computer Science; Eindhoven University of Technology, The Netherlands
- Jan 2005–Jun 2007 Master of Science in Computer Science & Engineering; Eindhoven University of Technology, The Netherlands
- Sep 2001–Nov 2006 Bachelor of Science in Computer Science; Eindhoven University of Technology, The Netherlands
- Sep 1998–Aug 2001 Information Theory/Electrical Engineering; Eindhoven University of Technology, The Netherlands
- Sep 1992–May 1998 VWO¹, Gymnasium; Onze Lieve Vrouwe Lyceum, Breda, The Netherlands

Professional Experience

- Jan 2012– Mozcode (<http://mozcode.nl>), Eindhoven, The Netherlands; *founder & sole proprietor*, (open source) software development and consultancy.
- Aug 2007–Oct 2011 Department of Mathematics & Computer Science, Eindhoven University of Technology, The Netherlands; *Ph.D. research* in automata, formal language and process theory in project Models of Computation: Automata & Processes, funded by NWO grant.
- Nov 2005–Feb 2006 School of Mathematical & Computer Sciences, Heriot-Watt University, Edinburgh, United Kingdom; part-time *researcher* on internship abroad; researching and writing parts of the implementation of MathLang.
- Sep 2003–Nov 2006 Department of Mathematics & Computer Science, Eindhoven University of Technology, The Netherlands; part-time *student tutor*; assisting and tutoring students with courses and practical assignments.
- Jul 2003–Aug 2006 Spacelabs, Department of Electrical Engineering, Eindhoven University of Technology, The Netherlands; part-time *software engineer*; developed applications for Digital Video conferencing and residential gateway systems.
- Mar 2000–Aug 2002 BViT, Delft, The Netherlands; part-time *software engineer*; created free/open source software application for service monitoring and co-developed web interfaces for easy management of GNU/Linux servers.

¹Dutch preparation for scientific university education

Language Proficiency

Dutch: native, English: fluent, Esperanto: good, German: good,
French: basic

Computer Literacy

Applications	Git/Subversion/CVS, GNOME Desktop, LaTeX, Office (Excel/Word), VI
Languages	C, C++, CSS, Delphi/Pascal, Haskell, JavaScript, HTML, Java, OCaml, Perl, PHP, Prolog, Python, Ruby (Camping/Rails), Shell
Operating systems	UNIX (basics), (Debian) GNU/Linux, Mac OS X, Windows
Protocols (servers)	DHCP (ISC), DNS (ISC Bind/PowerDNS), FTP (ProFTPD/vsftpd), IMAP/POP3 (Dovecot), LDAP (OpenLDAP), HTTP/DAV (Apache/Lighttpd), SMTP (Exim/Postfix/Mailman), SSH (OpenSSH), TCP/UDP/IP (v4/v6), XMPP/Jabber (Ejabberd/Jabberd1.4)
Developed software	<ul style="list-style-type: none">• Camping/Photos (Camping/Ruby based photo gallery)• Checkservice (host/service monitoring service)• DV Router (digital video streaming application)• Feeding Frenzy! (multi-player game in C)• FM-LaTeX (LaTeX packages for formal methods type-setting)• ILDUS (dynamic DNS service in Perl/Ruby based on LDAP)• Goat! (Ruby web application for e-learning)• LEDR (document repository based on Rails)• Miriapodo (VCS-coupled auto-building system)• Plemp! (Camping/JavaScript collage web application)• Ruby/DBus (D-Bus implementation for Ruby)• Stop... Camping Time! (time registration and invoicing application)• Videbabilo (Ruby/GTK DV video conferencing application)

Publications

Theses	<p>P.J.A. van Tilburg. <i>Finite Equational Bases for CCS with Restriction</i>. Master's Thesis. Eindhoven, The Netherlands, June 2007.</p> <p>P.J.A. van Tilburg. <i>From Computability to Executability – A process-theoretic view on automata theory</i>. Ph.D. thesis. Eindhoven, The Netherlands, October 2011.</p>
Conference papers	<p>L. Aceto, A. Ingólfssdóttir, B. Luttik and P.J.A. van Tilburg. <i>Finite Equational Bases for Fragments of CCS with Restriction and Relabelling</i>. Springer, July 2008.</p> <p>J.C.M. Baeten, P.J.L. Cuijpers and P.J.A. van Tilburg. <i>A Context-Free Process as a Pushdown Automaton</i>. Springer, August 2008.</p> <p>J.C.M. Baeten, P.J.L. Cuijpers and P.J.A. van Tilburg. <i>A Basic Parallel Process as a Parallel Pushdown Automaton</i>. Elsevier, July 2009.</p>

J.C.M. Baeten, P.J.L. Cuijpers, B. Luttik and P.J.A. van Tilburg.
A Process-Theoretic Look at Automata. Springer, January 2010.

J.C.M. Baeten, B. Luttik, T.J.M. Muller and P.J.A. van Tilburg.
Expressiveness modulo Bisimilarity of Regular Expressions with Parallel Composition. Open Publishing Association, November 2010.

J.C.M. Baeten, B. Luttik and P.J.A. van Tilburg
Computations and Interaction. Springer, February 2011.

J.C.M. Baeten, B. Luttik and P.J.A. van Tilburg
Reactive Turing Machines. Springer, September 2011.

Other publications

P.J.A. van Tilburg. *Exploring the Core of MathLang – Internship Report*. Eindhoven, The Netherlands, February 2006.

J.C.M. Baeten, P.J.L. Cuijpers, B. Luttik and P.J.A. van Tilburg.
Models of Computation: Automata & Processes (abstract). Italy, September 2009.

P.J.A. van Tilburg. *Reactive Turing Machines and ACP_τ* (abstract). France, September 2010.

Talks (selection)

A Context-Free Process as a Pushdown Automaton at CONCUR'08, Toronto, Canada, August 2008.

A Basic Parallel Process as a Parallel Pushdown Automaton at EXPRESS'08, Toronto, Canada, August 2008.

Finite Equational Bases for Fragments of CCS with Restriction and Relabelling at WCC/TCS 2008, Milan, Italy, September 2008.

Models of Computation: Automata and Processes An Overview at the ICE-TCS Theory Day 2009, Reykjavík University, Iceland, June 2009.

Models of Computation: Automata and Processes at YR-CONCUR 2009, Bologna, Italy, September 2009.

Reactive Turing Machines and ACP_τ at YR-CONCUR 2010, Paris, France, September 2010.

Teaching Experience

Department of Mathematics & Computer Science, Eindhoven University of Technology, The Netherlands;

Feb 2010–Jul 2010	tutorials course <i>Automata & Process Theory</i>
Feb 2009–Aug 2009	tutor students during Master's graduation project
Sep 2007–Jan 2009	assistant for <i>Seminar on Formal Methods</i>
Sep 2007–Jan 2009	tutor/supervisor in design-oriented projects
Sep 2003–Nov 2006	student tutor in practical assignments <i>Compilers</i> course and design-oriented projects

Extracurricular Activities

- Dec 2007–Sep 2011 IPA Ph.D. council member. Representing the Ph.D. students from the Eindhoven University of Technology who are member of the national research school IPA (<http://www.win.tue.nl/ipa/>).
- May 2001– Debian developer and package maintainer. Founded and currently managing the Debian/Ruby Extras team (<http://debian.org/>).
- Aug 2000–Dec 2011 Developing applications and performing system administration in a student group working on free/open source communication applications for GNU/Linux (<http://spacelabs.nl/>).
- Dec 1999– Setting up and maintaining a network of servers servicing GNU/Linux users at the Eindhoven University of Technology on a voluntary basis (<http://luon.net/>).
- Aug 1998– Setting up and maintaining an on-line virtual world and community for Dutch Internet users (<http://utopiamoo.net/>).

Recreation

Music, natural & programming languages, cooking, travelling, system administration, developing free & open source software.

Last updated at Eindhoven, 1 February, 2012