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Curriculum Vitæ
Michiel Helvensteijn

Education

2009 – 2014	• PhD in Computer Science at the CWI and Leiden University
2007 – 2009	• Master of Science in Computer Science at Leiden University (*cum laude*)
2004 – 2007	• Bachelor of Science in Informatica at Leiden University (*cum laude*)
1998 – 2004	• Voorbereidend Wetenschappelijk Onderwijs at Alfrink College Zoetermeer
1999 – 2000	• MBO Algemene Ondernemers Vaardigheden at the NHA
1997 – 1998	• MBO Praktische Informatiekunde 1 at Stichting Facta

Professional Experience

2015 – *2017*	○ Academic Software Engineer at UCL
2014 – 2015	• Postdoctoral Researcher & Developer at Leiden University
2013 – 2014	• Software Developer at the CWI
2012 – 2013	• Research Assistant at Leiden University
2009 – 2012	• Research Assistant at the CWI
2007 – 2009	• Student Assistant for Jobmotion, Leiden University (see also Teaching Experience)
2005 – 2007	• Software Engineer for Carlo Roosen Studio
2003 – 2005	• Webdevelopment and Webdesign on freelance basis

Teaching Experience ⋆ notable

2013	⋆ Lecturer on modern web development for Studievaardigheden at Leiden University
2013	⋆ Lecturer on Android development for Challenges of Computer Science at Leiden University
2012	⋆ Lecturer on Android development for Studievaardigheden at Leiden University
2011 – 2012	• Teaching Assistant for Programmeren & Correctheid at Leiden University
2011	⋆ Lecturer on Qt development for Studievaardigheden at Leiden University
2010	⋆ Teacher of Hoare logic for Programmeren & Correctheid at Leiden University
2008 – 2009	• Student Assistant for Challenges in Computer Science Seminar at Leiden University
2008 – 2009	• Student Assistant for Programmeren & Correctheid at Leiden University
2008	• Student Assistant for Compiler Construction at Leiden University
2007 – 2008	• Student Assistant for Programmeermethoden at Leiden University

Peer-reviewed Publications ⋆ notable

2016	• B. de Bono, *M. Helvensteijn*, N. Kokash, I. Martorelli, D. Sarwar, S. Islam, P. Grenon, P. Hunter: Requirements for the formal representation of pathophysiology mechanisms by clinicians, in Interface Focus, issue 6:2 [doi]
2016	• *M. Helvensteijn* and F. Arbab: Toward a Formal Foundation for Time Travel in Stories and Games, a chapter in "Theory and Practice of Formal Methods", Lecture Notes in Computer Science, pp. 261–276, [doi]

2015	• M.M. Bonsangue, *M. Helvensteijn*, J.N. Kok and N. Kokash: Action Systems for Pharmacokinetic Modeling, a chapter in "From Action Systems to Distributed Systems: The Refinement Approach", published by CRC Press
2015	• B. de Bono, S. Safaei, P. Grenon, D.P. Nickerson, S. Alexander, *M. Helvensteijn*, J.N. Kok, N. Kokash, A. Wu, T. Yu, P. Hunter and R.A. Baldock: The Open Physiology workflow: modeling processes over physiology circuitboards of interoperable tissue units, in Frontiers in Physiology `doi`
2014	• B. de Bono, P. Grenon, *M. Helvensteijn*, J. Kok and N. Kokash: ApiNATOMY: The Generation of Interactive Circuitboard Views of Complex Physiology Knowledge, in the Proceedings of the Virtual Physiological Human Conference
2014	• B. de Bono, P. Grenon, *M. Helvensteijn*, J. Kok and N. Kokash: ApiNATOMY: Towards Multiscale Views of Human Anatomy, in the Proceedings of the 13th International Symposium on Intelligent Data Analysis, pp. 72–83 `doi`
2014	⋆ *M. Helvensteijn*: Abstract Delta Modeling: Software Product Lines and Beyond, PhD Thesis, defended in 2014 `doi`
2014	• *M. Helvensteijn*: The `pkgloader` and `lt3graph` Packages: Toward simple and powerful package management for LaTeX, in TUGboat, the Communications of the TeX Users Group, issue 35:1, 2014
2013	• R. Hähnle, *M. Helvensteijn*, E.B. Johnsen, M. Lienhardt, D. Sangiorgi, I. Schaefer and P. Wong: HATS Abstract Behavioral Specification: The Architectural View, FMCO 2011 postproceedings `doi`
2012	• F.S. de Boer, *M. Helvensteijn*, J. Winter: A Modal Logic for Abstract Delta Modeling, in the Proceedings of the 16th International Software Product Line Conference - Volume 2, pp. 45–52 `doi`
2012	• *M. Helvensteijn*: Dynamic Delta Modeling, in the Proceedings of the 16th International Software Product Line Conference - Volume 2, pp. 127–134 `doi`
2012	• *M. Helvensteijn*: Abstract Delta Modeling: My Research Plan, in the Proceedings of the 16th International Software Product Line Conference - Volume 2, pp. 217–224 `doi`
2012	⋆ D. Clarke, *M. Helvensteijn*, I. Schaefer: Abstract Delta Modeling, in Mathematical Structures of Computer Science special issue: Objects and Services `doi`
2012	• *M. Helvensteijn*: Delta Modeling Workflow, in the Proceedings of the 6th international Workshop on Variability Modelling of Software-intensive Systems, pp. 129–137 `doi`
2012	• *M. Helvensteijn*, R. Muschevici, P. Wong: Delta Modeling in Practice, a Fredhopper Case Study, in the Proceedings of the 6th international Workshop on Variability Modelling of Software-intensive Systems, pp. 139–148 `doi`
2010	• D. Clarke, *M. Helvensteijn*, I. Schaefer: Abstract Delta Modeling, in the Proceedings of the 9th international conference on Generative Programming and Component Engineering; (ACM SIGPLAN), pp. 13–22 `doi`
2008	⋆ *M. Helvensteijn*: Applying Data Mining to the Study of Joseki, in Artificial Intelligence in Theory and Practice II; (Boston: Springer), pp. 87–96 `doi`

Awards

2013	• 1st place at Startup Weekend Enschede 2013 `www`
2009	• Cum Laude Master's Degree in Computer Science
2007	• Cum Laude Bachelor's Degree in Informatica
2005	• Jong Talent Aanmoedigings Prijs 'Informatica & Technische Informatica' from the Koninklijke Hollandsche Maatschappij der Wetenschappen `www`

International Visits

Conferences

Apr	2016	• FdB60: Celebration Event	–	Eindhoven, The Netherlands
Oct	2014	• 13th IDA Conference	–	Leuven, Belgium

Oct	2014	• 1st ng-europe Conference	– Paris, France
Oct	2013	• Tissue KM Workshop	– Brussels, Belgium
Sep	2012	• 16th SPLC Conference	– Salvador, Brazil
Jan	2012	• 6th VaMoS Workshop	– Leipzig, Germany
Oct	2010	• 9th GPCE Conference	– Eindhoven, The Netherlands
Sep	2008	• IFIP 20th World Computer Congress	– Milan, Italy

Project Meetings

Sep	2016	• CHIC Working Meeting	– Saarbrücken, Germany
Aug	2014	• BioJS Hackathon	– Munich, Germany
Sep	2011	• 3rd Annual HATS Meeting	– Oslo, Norway
May	2011	• HATS Working Meeting	– Leuven, Belgium
Sep	2010	• 2nd Annual HATS Meeting	– Kaiserslautern, Germany
Aug	2010	• HATS Working Meeting	– Oslo, Norway
Oct	2009	• HATS Working Meeting	– Leuven, Belgium
Sep	2009	• 1st Annual HATS Meeting	– Gothenburg, Sweden

Research Visits

May	2013	• Visit to Katholieke Universiteit Leuven	– Leuven, Belgium
Dec	2012	• Visit to Katholieke Universiteit Leuven	– Leuven, Belgium
Jul	2012	• Visit to the University of Bologna	– Bologna, Italy
Nov	2010	• Visit to Katholieke Universiteit Leuven	– Leuven, Belgium
Dec	2009	• Visit to Chalmers University	– Gothenburg, Sweden

Research Schools

Aug	2010	• Marktoberdorf Summer School	– Marktoberdorf, Germany
Feb	2010	• SYANCO Winter School	– Berlin, Germany

Refereeing Experience

2016	• FdB60, Celebration event for Frank de Boer's 60th birthday
2015	• Elsevier Journal 'Journal of Logical and Algebraic Methods in Programming'
2015	• Elsevier Journal 'Science of Computer Programming'
2014	• Elsevier Journal 'Journal of Logical and Algebraic Methods in Programming'
2014	• Springer Journal 'Software and Systems Modeling' Special Issue ($\times$2)
2013	• HATS International School on Formal Models for Components and Objects Postproceedings
2013	• Elsevier Journal 'Science of Computer Programming' Special Issue
2012	• 5th IPM International Conference on Fundamentals of Software Engineering ($\times$2)
2012	• 28th Symposium On Applied Computing
2012	• 10th Conference on Formal Methods for Components and Objects, postproceedings
2012	• 14th Conference on Coordination Models and Languages ($\times$2)
2011	• 27th Symposium On Applied Computing
2011	• 2nd International Conference on Formal Verification of Object-Oriented Software ($\times$2)
2011	• 8th International Symposium on Formal Aspects of Component Software
2011	• 2nd International Conference on Complex Systems Design & Management
2011	• 15th CSI International Symposium on Computer Science and Software Engineering
2011	• 4th IPM International Conference on Fundamentals of Software Engineering
2010	• 8th IEEE International Conference on Software Engineering and Formal Methods
2009	• 7th IEEE International Conference on Software Engineering and Formal Methods

European Projects

2014 – 2016   • DDMoRe: The Drug Disease Model Resources consortium, supported through the IMI by the 7th Framework Programme of the EC and the EFPIA   www

2009 – 2013   • HATS: Highly Adaptable and Trustworthy Software using Formal Models, supported by the 7th Framework Programme of the EC within the FET scheme   www

Miscelaneous Academic Activities

2013   • Initiation / organization of a weekly group meeting for the FM research group at the CWI

2012   • Local organization for the 6th IFIP International Conference on Theoretical Computer Science

2011 – 2012   • Organization of the biweekly ACG colloquium at the CWI

2010 – 2012   • Organization of three separate peer-reviewed deliverables for the HATS project

Followed Courses

Nov 2012   • 'Writing an Excellent Research Grant Proposal' at Leiden University

Oct 2012   • 'Intellectual Property' at Leiden University

Oct 2012   • 'The Art of Presenting Science' at the CWI

Feb 2012   • 'Effective Communication' at Leiden University

Feb 2012   • 'Time Management and Personal Efficiency' at the CWI

Nov 2011   • ICT.OPEN: an IPA Research School event

Oct 2011   • 'Write it Right' at the CWI

Apr 2011   • IPA Lentedagen: an IPA Research School event

Nov 2010   • IPA Herfstdagen: an IPA Research School event

Apr 2010   • IPA Lentedagen: an IPA Research School event

Personal Projects

2014 – ⋯   • `delta.js`: an implementation of delta modeling for JavaScript   www

2014 – ⋯   • `graph.js`: a graph datastructure for JavaScript   www

2014 – ⋯   • `pkgloader`: a LaTeX package for managing the options and loading order of packages   www

2014 – ⋯   • `delta-modules`: an implementation of delta modeling for the LaTeX language   www

2013 – ⋯   • `lt3graph`: a graph datastructure for the LaTeX3 programming environment   www

2013 – 2014   • Talescape: Experiencing and sharing interactive audible augmented reality   www

2013 – ⋯   • `underoverlap`: a LaTeX construct for partly overlapping math decorations   www

2012 – ⋯   • `withargs`: a LaTeX construct for locally passing token-lists as `#i` arguments   www

2012 – 2013   • `concepts`: a LaTeX package for keeping track of formal concepts in scientific papers   www

2011 – ⋯   • Delta Profiles: a smart, modular profile manager for Android based on Delta Modeling   www

2008 – ⋯   • Mist, the programming language: the design of a high level programming language   www