

# Curriculum Vitae

Dipl.-Ing. Florian Knorn  
Hamilton Institute, NUI Maynooth  
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## Academic Background

- 1992 – 2001 Collège Français de Berlin, Germany
- 1998 – 1999 AFS student exchange year to Christchurch, New Zealand
- 2001 Abitur + Baccalauréat (Série S)<sup>(1)</sup> at the Collège Français de Berlin, Germany
- 2001 – 2006 Studies of Technical Cybernetics, O.-v.-G.-Universität Magdeburg, Germany
- 2002 – 2004 Research Assistant, Max-Planck-Institut, Magdeburg, Germany
- 2005 Research Student, Hamilton Institute, NUI Maynooth, Ireland
- 2005 – 2006 Internship, DaimlerChrysler Research & Technology, Germany
- 2006 Diploma thesis, ARC Centre for Complex Dyn. Systems & Control, Australia
- 2006 Degree of *Diplom-Ingenieur*<sup>(2)</sup> from O.-v.-G.-Universität, Magdeburg, Germany
- 2006 – 2007 Ph.D., Technische Universität Berlin, Germany
- 2007 – Ph.D. (cont.), Hamilton Institute, NUI Maynooth, Ireland

## Areas of specialization

- Switched systems
- Positive systems
- Control theory
- Systems theory
- Pattern Recognition
- Systems biology

## Computer Skills

- Mac OS, Windows, Linux
- C/C++, Python, HTML, PHP
- MATLAB and SIMULINK, dSpace
- $\text{\LaTeX}$ , Microsoft / Open Office, Apple iWork, Apple iLife, Adobe Photoshop, Final Cut Express, Adobe Premiere

## Languages

- German, French and English spoken fluently
- Spanish, Latin and Ancient Greek

## Research experience

- Two years as a research assistant working on educational control experiments like the high wire walker and the inverted triple pendulum, Systems Theory group of Prof. Jörg Raisch, Max Planck Institute of Dynamics of Complex Technical Systems, Magdeburg, Germany
- Six months as a research student working on the analysis of complex networks, Prof. Robert Shorten, Hamilton Institute, NUI Maynooth, Ireland

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<sup>(1)</sup> With *Mention Bien*.

<sup>(2)</sup> With *Summa Cum Laude*.

- Six months internship working on the control of an active hydraulic vehicle suspension, Dr. Jens Kalkkuhl, vehicle system dynamics department, DaimlerChrysler Research & Technology, Böblingen, Germany
- Six months as a research student working on deliberate passing behaviour in RoboCup Four Legged League robots, Prof. Richard H. Middleton, ARC Centre for Complex Dynamics & Control, University of Newcastle, Australia
- Since February 2007 Ph.D. studies, focussing on topics in Switched systems, positive systems and anomaly detection in software appliances, at the Hamilton Institute, NUI Maynooth, Ireland

## Teaching experience

- Seminars on the usage of MATLAB and SIMULINK
- Seminars on Ranking and Importance in Complex Networks
- Seminars on the implementation of Deliberate Passing Behaviour in the RoboCup Four Legged League

## Scholarships

- 2003 – 2006, scholar of the German National Academic Foundation

## Patents

- P808872/DE/1 (pending, in conjunction with DaimlerChrysler R.&T.): "Device for the control of the forward movement of a vehicle".

## References

- Prof. Robert Shorten, Hamilton Institute, NUI Maynooth, Ireland  
robert.shorten@nuim.ie
- Prof. Richard H. Middleton, ARC Centre for Complex Dynamics & Control, University of Newcastle, Australia  
richard.middleton@nuim.ie
- Prof. Jörg Raisch, Fachgebiet Regelungssysteme, Technische Universität Berlin, Germany  
raisch@control.tu-berlin.de
- Prof. Jens Kalkkuhl, vehicle system dynamics department, DaimlerChrysler Research & Technology, Böblingen, Germany  
jens.c.kalkkuhl@daimler.com
- Dr. Oliver Mason, Hamilton Institute, NUI Maynooth, Ireland  
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## Personal Information

Date of birth: xxx December 1981  
 Gender: Male  
 Nationality: German  
 Confession: Christian

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Florian Knorn, 3 June 2009