

# Curriculum Vitæ

for Nils Kammenhuber

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## Personal Data

Date of birth	1975 (Saabrücken, Germany)
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## Degrees

- Dr. rer. nat (PhD computer science)  
Grade: 1.0 (summa cum laude)  
Technische Universität München, Germany
- Diplom-Informatiker (MSc computer science)  
Grade: 1.7 (gut)  
Universität des Saarlandes, Saarbrücken, Germany
- Abitur (A-levels / high school diploma / associate degree)  
Grade: 1.9 (gut)  
Gymnasium am Steinwald, Neunkirchen/Saar, Germany

## Education

**Technische Universität München:** August 2002 to July 2008

PhD student and research assistant

Advisor: Prof. Anja Feldmann

Funding: DFG-Schwerpunktprojekt 1126 „Algorithmics of large networks“

Thesis: *Traffic Adaptive Routing*

**Universität des Saarlandes:** July 2002

PhD student and research assistant

Advisor: Prof. Anja Feldmann

**Universität des Saarlandes:** October 1994 to July 2002

Student of computer science

Degree: Diplom-Informatiker (Master of computer science)

**University of Edinburgh:** October 1997 to September 1998

Non-graduating student (computer science and artificial intelligence)

## Employment History

### Technische Universität München

- Since October 2008: Postdoctoral researcher  
Chair for network architectures and services, Prof. Dr. Georg Carle
- August 2002 to July 2007: PhD student and Research Assistant, see “Education”

### Intel Research (Cambridge, UK)

- January 2004 to May 2004: Research intern  
Advisor: Dr. Lukas Kencl

### Technische Universität München

- since August 2002: PhD student and research assistant, see “Education”

### Universität des Saarlandes

- July 2002: PhD student and Research Assistant, see “Education”
- May 2002 to July 2000: Assistant, Computer Networks lecture  
Prof. Anja Feldmann, Universität des Saarlandes, Saarbrücken, Germany
- April 2000 to July 2000: Student Tutor, Computer Networks lecture  
Prof. Anja Feldmann, Universität des Saarlandes, Saarbrücken, Germany
- February 1997 to September 1997: Student Assistant, Artificial Intelligence research  
Prof. Wolfgang Wahlster, Universität des Saarlandes, Saarbrücken, Germany

**DFKI** (Deutsches Forschungszentrum für Künstliche Intelligenz / German Research Center for Artificial Intelligence)

- November 2000 to March 2002: Student Assistant / Programmer, Artificial Intelligence research  
Prof. Jörg Siekmann, DFKI, Saarbrücken, Germany
- May 1999 to December 1999: Student Assistant, Artificial Intelligence research  
Prof. Jörg Siekmann, DFKI, Saarbrücken, Germany

## Selected Publications

- Nils Kammenhuber, Ali Fessi, Georg Carle: *Resilience: Widerstandsfähigkeit des Internets gegen Störungen – Stand der Forschung und Entwicklung* (translation: Resilience of the Internet against disruptions—state of the art in R&D), Informatik-Spektrum, Volume 33, No. 2, Springer-Verlag, 2010
- Anja Feldmann, Simon Fischer, Nils Kammenhuber, Berthold Vöcking: *Management of Variable Data Streams in Networks*. Springer Lecture Notes in Computer Science (LNCS), Volume 5515/2009 (Algorithmics of Large and Complex Networks), Springer-Verlag Berlin/Heidelberg, 2009.
- Simon Fischer, Nils Kammenhuber, Anja Feldmann: *REPLEX—Dynamic Traffic Engineering Based on Wardrop Routing Policies*. Proceedings of the Conference on Future Networking Technologies (CoNEXT), Lisboa, Portugal, 2006
- Nils Kammenhuber, Julia Luxenburger, Anja Feldmann, Gerhard Weikum: *Web search clickstreams*. Proceedings of the Internet Measurement Conference (IMC), Rio de Janeiro, Brazil, 2006
- Lukas Kencl, Nils Kammenhuber: *Efficient Statistics Gathering from Tree-Search Methods in Packet Processing Systems*. Proceedings of the IEEE International Conference in Communications, Seoul, Republic of Korea, 2005
- Anja Feldmann, Nils Kammenhuber, Olaf Maennel, Bruce Maggs, Roberto De Prisco, Ravi Sundaram: *A Methodology for Estimating Interdomain Web Traffic Demand*. Proceedings of the Internet Measurement Conference, Taormina, Italy, 2004
- Amit Aggarwal, Tarun Aggarwal, Sumit Chopra, Anja Feldmann, Nils Kammenhuber, Piotr Krysta, Berthold Vöcking: *An Experimental Study of  $k$ -Splittable Scheduling for DNS-Based Traffic Allocation*. Proceedings of EURO-PAR, Klagenfurt, 2003

## Teaching Experience

- Organised and held a lecture on discrete-event simulation (1 semester)
- Individual lectures on routing protocols, TCP, network architecture, network simulation, statistics
- Tutor for practical courses on programming networking protocols and applications (including development of exercises), 4 semesters

- Tutor for a practical course on system performance analysis, including developing exercises, 2 semesters
- Organised a seminar on Internet routing, 1 semester
- Advisor for several Diploma (Master) and Bachelor theses
- Advisor for students in various network-related seminars and practical works
- Tutor for computer science undergraduate courses, 6 semesters

## Other Experiences

- October 2000 to July 2001 and October 2001 to July 2002:  
Member of the Students' Parliament, Universität des Saarlandes, Saarbrücken, Germany
- May 1995 to September 1997 and October 1998 to August 2002:  
Member of the Fachschaftsrat Informatik (Computer Science student representatives), Universität des Saarlandes, Saarbrücken, Germany

## Programming Languages

- Java (very experienced)
- Perl (very experienced)
- R / Splint, Bourne shell (experienced)
- C, C++ (some experience)
- Prolog, ML/SML/OCaML/..., Pascal, JavaScript, PostScript (basic knowledge)

## Operating Systems

- Linux: very experienced; some administration knowledge (preferred OS)
- other Unix or BSD derivatives: experienced (preferred OS)
- Windows: experienced

## Languages

- German: native
- English: fluent (5 years in school; 1 $\frac{1}{4}$  year abroad)
- French: fluent (7 years in school)
- Bulgarian: beginner
- Portuguese, Dutch, Italian, Russian, Spanish: some knowledge