

# Curriculum Vitæ

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## Persönliche Daten

Name: Dr. Verena Wolf  
Geburtsdatum: 27. Februar 1979  
Geburtsort: Hachenburg, Deutschland  
Staatsangehörigkeit: deutsch  
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## Derzeitige Position

**Seit Oktober 2012:** Professorin (W3) für *Modellierung und Simulation*, Universität des Saarlandes

## Frühere Positionen und Studien

**April 2012–Oktober 2012:** Professorin (W2) für *Modellierung und Simulation*, Universität des Saarlandes

**März 2009–April 2012:** Leiterin der Nachwuchsforschungsgruppe *Analysis of Markovian Models (ALMA)* im Exzellenzcluster „Multimodal Computing and Interaction“ der Universität des Saarlandes.

**Januar 2008–März 2009:** wissenschaftliche Mitarbeiterin (Postdoc) am Lehrstuhl „Models and Theory of Computation“ von Prof. Dr. Thomas A. Henzinger, Eidgenössische Technische Hochschule Lausanne (EPFL), Schweiz.

**Mai 2003–Dezember 2008:** Doktorandin am Lehrstuhl „Praktische Informatik II“ von Prof. Dr. Mila Majster-Cederbaum, Universität Mannheim.

**Oktober 1998–April 2003:** Studium der Informatik an der Universität Bonn, Nebenfach Mathematik.

## Akademische Grade

**April 2008:** Promotion zum Dr. rer. nat. an der Universität Mannheim, Dissertation zum Thema „Equivalences on Phase Type Processes“ begutachtet von Prof. Dr. Mila Majster-Cederbaum und Prof. Dr. Christel Baier (TU Dresden), Note: summa cum laude.

**April 2003:** Diplom in Informatik (mit Auszeichnung) an der Universität Bonn, Diplomarbeit zum Thema „Bisimulation und Simulation für Markovmodelle“, begutachtet von Prof. Dr. Christel Baier, Note: sehr gut.

## Eingeladene Vorträge (ab 2007)

- *Partial Moment Closures and Rare Event Methods for Stochastic Reaction Networks.* 11th Conference on Computational Methods in Systems Biology, Sept 2013, Institute for Science and Technology Austria, Klosterneuburg, Österreich
- *Analysis of Markov Population Models.* Workshop on Discrete and Continuous Models in the Theory of Networks, Juni 2013, Zentrum für interdisziplinäre Forschung, Bielefeld
- *Stochastic Hybrid Models of Chemical Reaction Networks.* Workshop on the Numerical Solution of the Chemical Master Equation in Molecular Biology, September 2011, München
- *Stochastic Hybrid Analysis of Markov Population Models.* Workshop on Models and Logics for Quantitative Analysis, September 2011, Aachen
- *Parameter Estimation for Stochastic Models of Chemical Reaction Networks.* Workshop on Computational Models for Cell Processes. September 2011, Aachen, Germany
- *Stochastic Modelling of Biochemical Networks.* Cold Spring Harbor Computational Cell Biology Summer School, July 2011, Cold Spring Harbor Laboratory, NY, USA
- *Stochastic Modelling of Biochemical Networks.* Kolloquiumsvortrag, April 2011, Universität Magdeburg
- *Stability Analysis for Stochastic Chemical Kinetics.* Kolloquiumsvortrag, Februar 2011, ETH Zürich
- *Stochastic Modelling of Biochemical Networks.* Workshop on Hybrid Systems and Biology, CPSWEEK, November 2010, Manchester, UK
- *Stochastic models of chemical reactions: What's with all the noise?* Kolloquiumsvortrag, März 2010, Universität Konstanz
- *Stochastic models of chemical reactions: What's with all the noise?* FRIAS Life Sciences Seminar, März 2010, Universität Freiburg

- *Stochastic Modeling and Simulation of Chemical Dynamics*. SaarLorLux Workshop on Systems Biology, Februar 2010, Nancy, Frankreich
- *Numerical Approximation Strategies for the Chemical Master Equation*. Kolloquiumsvortrag, November 2009, TU Cottbus
- *Numerical Approximation Strategies for the Chemical Master Equation*. Kolloquiumsvortrag, Januar 2009, Institute of Science and Technology Austria
- *Modelling of Biochemical Reactions by Stochastic Automata Networks*. International Workshop on Probabilistic Automata and Logics, Juli 2007, Wroclaw, Polen
- *Modelling of Biochemical Reactions by Stochastic Automata Networks*. Kolloquiumsvortrag, März 2007, EPFL, Lausanne, Schweiz
- *A Numerical Aggregation Algorithm for the Enzyme-catalyzed Substrate Conversion*. Kolloquiumsvortrag, Februar 2007, Universität Rostock

### **Drittmittelprojekte und Mitgliedschaften**

- „Principal Investigator“ im Sonderforschungsbereich 1027 „Physikalische Modellierung von Nichtgleichgewichtsprozessen in biologischen Systemen“
- „Principal Investigator“ im Sonderforschungsbereich/Transregio „Automatic Verification and Analysis of Complex Systems“ (AVACS)
- „Associate Investigator“ im Exzellenzcluster „Multimodal Computing and Interaction“
- Mitglied des *Zentrums für Bioinformatik*, Universität des Saarlandes

### **Mitgliedschaften in Programmkommissionen**

- HSCC 2014 (17th International Conference on Hybrid Systems: Computation and Control), Berlin, Deutschland
- MAM8 2014 (8th International Conference on Matrix-Analytic Methods in Stochastic Models), Kerala, Indien
- MMB & DFT 2014 (18th International GI/ITG Conference on Measurement, Modelling and Evaluation of Computing Systems and Dependability and Fault Tolerance) in Bamberg, Deutschland

- QAPL 2014 (12th International Workshop on Quantitative Aspects of Programming Languages) in Grenoble, Frankreich
- QEST 2013 (10th International Conference on the Quantitative Evaluation of Systems) in Buenos Aires, Argentinien
- CMSB 2013 (11th International Conference on Computational Methods in Systems Biology) in Wien, Österreich
- WSC 2012 (44th Winter Simulation Conference) in Washington, DC, USA
- CS2Bio 2012 (3rd International Workshop on Interactions between Computer Science and Biology) in Stockholm, Schweden
- ECCB 2012 (11th European Conference on Computational Biology) in Basel, Schweiz
- HSB 2012 (1st International Workshop on Hybrid Systems and Biology) in Newcastle upon Tyne, UK
- MMB & DFT 2012 (16th International GI/ITG Conference on Measurement, Modelling and Evaluation of Computing Systems and Dependability and Fault Tolerance) in Kaiserslautern, Deutschland
- QEST 2012 (9th International Conference on the Quantitative Evaluation of Systems) in London, UK
- YR-CONCUR 2012 (Young Researchers Workshop on Concurrency Theory) in Paris, Frankreich
- CMSB 2011 (9th International Conference on Computational Methods in Systems Biology) in Paris, Frankreich
- TACAS 2011 (17th International Conference on Tools and Algorithms for the Construction and Analysis of Systems), Saarbrücken, Deutschland
- CS2Bio 2011 (2nd International Workshop on Interactions between Computer Science and Biology) in Reykjavik, Island
- QAPL 2011 (9th Workshop on Quantitative Aspects of Programming Languages) in Saarbrücken, Deutschland
- CANA 2011 (5th Workshop on Computer Aspects of Numerical Algorithms) in Szczecin, Polen
- SOFSEM 2010 (37th International Conference on Current Trends in Theory and Practice of Computer Science), Nový Smokovec, Slowakei

- CMSB 2010 (8th Conference on Computational Methods in Systems Biology), Trento, Italien
- FORMATS 2010 (8th International Conference about Foundations and Semantics, Methods and Tools, and Application of Timed Systems), Wien, Österreich
- NSMC 2010 (6th International Workshop on the Numerical Solution of Markov Chains), Williamsburg, Virginia, USA
- QEST 2010 (7th International Conference on the Quantitative Evaluation of Systems), Williamsburg, Virginia, USA
- CANA 2010 (4th International Workshop on Computer Aspects of Numerical Algorithms Workshop), Wisla, Polen
- CS2Bio 2010 (1st International Workshop on Interactions between Computer Science and Biology), Amsterdam, Niederlande
- QAPL 2010 (8th International Workshop on Quantitative Aspects of Programming Languages), Paphos, Zypern
- QEST 2009 (6th International Conference on the Quantitative Evaluation of Systems), Budapest, Ungarn
- Infinity 2009 (11th International Workshop on Verification of Infinite-State Systems), Bologna, Italien
- QFM 2009 (1st International Workshop on Quantitative Formal Methods), Eindhoven, Niederlande
- BIOTECHNO 2008 (1st International Conference on Biocomputation, Bioinformatics, and Biomedical Technologies), Bucharest, Rumänien

### **Organisation von Tagungen**

- International Workshop on *Modeling and Analysis of Complex Reaction Networks*, Kaiserslautern, Germany, 2012
- International Workshop on *Modeling and Verification of Uncertain Hybrid Systems*, Stockholm, Schweden, 2010

## Preise und Auszeichnungen

Preis *Innovatoren unter 35* des Technology Review Magazins (Heise Verlag)

## Gutachtertätigkeiten

Gutachten für verschiedene internationale Journale und Tagungen, insbesondere:

TCS (Journal of Theoretical Computer Science), JACM (Journal of the ACM), ECCB, (European Conference on Computational Biology), BMC Systems Biology, WSC (Winter Simulation Conference), HSCC (International Conference on Hybrid Systems: Computation and Control), CMSB (International Conference on Computational Methods in Systems Biology), Performance Evaluation Journal, Journal of Information and Computation, TACAS (International Conference on Tools and Algorithms for the Construction and Analysis of Systems), CONCUR (International Conference on Concurrency Theory), ICALP (International Colloquium on Automata, Languages and Programming), DSN (International Conference on Dependable Systems and Networks), CAV (International Conference on Computer Aided Verification), MMB (International Conference on Measurement, Modelling and Evaluation of Computing Systems), SOFSEM (International Conference on Current Trends in Theory and Practice of Computer Science), COORDINATION (International Conference on Coordination Models and Languages), ESOP (European Symposium on Programming), QEST (International Conference on the Quantitative Evaluation of Systems), TPDS (IEEE Transactions on Parallel and Distributed Systems), JLAP (Journal of Logic and Algebraic Programming), FoSSaCS (International Conference on Foundations of Software Science and Computation Structures), ATVA (International Symposium on Automated Technology for Verification and Analysis)