

## Curriculum Vitae: Dr. rer. nat. **Martin Treiber** (\*30.08.1961)

### Scientific Background

Since 2000 Senior Research Scientist. Permanent position at the Institute for Transport and Economics, Dresden University of Technology  
1996.2000 Research Scientist, University of Stuttgart  
1997 Dissertation  
1993.1995 Visiting Scientist, University of California Santa Barbara and University of Arizona Tucson  
1992-1996 Research Assistant (PhD student), University of Bayreuth  
1986-1992 Study of Physics, University of Bayreuth  
1982-1986 Study of High Precision Mechanics and Optics, Technical University of Nuremberg

### Research Projects (Selected)

SANDY - Verehrsanwendungen der Nichtlinearen Physik (BMBF, together with Daimler-Chrysler, Volkswagen, Siemens and other automotive-related companies)

Stauvermeidung durch intelligentes Fahrzeugverhalten (VW AG)

VASIS - Modellbasierte Verkehrszustandsschätzung unter Berücksichtigung verschiedener Datenquellen (ddg GmbH),

INVENT - Intelligenter Verkehr und nutzergerechte Technik (BMBF, together with Volkswagen, Daimler-Chrysler, BMW, and other automotive-related companies)

AKTIV – Adaptive and Cooperative Technologies for intelligent Traffic (BMBF, together with Volkswagen, MAN, and other automotive-related companies)

KOLINE – a Volkswagen project on eco-routing

COOL – Cooperatively Organized Operations of Longitudinal driving, a small Volkswagen project

MOVSIM – Multi-model, open-source vehicular-traffic Simulator, a scientific software project, see [www.movsim.org](http://www.movsim.org)

### Consultancy

Various projects for Volkswagen, TomTom, Teledyne Inc, the German authorities for inland waterways, and others related to traffic flow, intelligent traffic, adaptive cruise control, autonomous driving, trajectories, and eco-routing

### Awards and Prizes

“Emil-Warburg-Forschungspreis” (Research Prize) for the best dissertation in Physics at the University of Bayreuth, 1996.

“Best Referee Award”, The American Physical Society, 2009

### Publications

About 100, including two textbooks on Traffic Flow Dynamics. See <http://scholar.google.de/citations?user=WCLdpbMAAAAJ> .