

# 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
1996	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, finished with a Diploma
1982-1986	Study of High Precision Mechanics, TU Nuremberg, finished with a Diploma

## Research Projects (Selected)

INVENT - Intelligenter Verkehr und nutzergerechte Technik (BMBF, together with Volkswagen, Daimler, 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

DFG – Selbstheilende Straßennetze – Lichtsignalgestütztes Störfallmanagement auf Basis mesoskopischer nichtgleichgewichtiger Verkehrsmodelle

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)

IPBMNES – Integrated Pedestrian Behavior Modeling under Normal and Evacuation Situations

## 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

## Editorship

Associate Editor at Transportation Research Part B, and Transportmetrica A

## 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

“Top 1% Reviewer Award” Publons, 2017

## Publications

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