

Curriculum vitae

Academic positions in theoretical physics:

1987.. 1991

- Ph.D. student, Institute of Optics and Spectroscopy Berlin, Theoretical Physics Division.
- Simulation of high-power laser-plasma interactions.

1992.. 1997

- Post-doctoral researcher, Max-Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Berlin.
- Numerical models for Quantum Well laser devices. Numerical solutions for systems of non-linear partial differential equations.

Academic positions in bioinformatics/biostatistics:

1997.. 2000

- Research scientist in Bioinformatics, Institute of Molecular Biotechnology (IMB), Jena/Germany.
- Models and software for the analysis of DNA sequences.

1999.. 2000

- Leader of the Bioinformatics group of the Genome Analysis Division at IMB (10 scientists).

2000.. 2009

- Senior Research Scientist and Team Leader at the Rudbeck Laboratory, Uppsala University, Sweden.
- Comparative Genomic Hybridization, Microarrays, High-throughput data mining, statistical analysis of biological data, Software for Next Generation Sequencing

Summer 2007

- Visiting researcher at the [Leibniz Institute for Age Research](#) (FLI) in Jena, Germany
- Data Mining for Next Generation Sequencing

2008.. 2010

- University lecturer in Mathematical Statistics at Ångström Laboratory, Uppsala University

Research interests:

- Bioinformatics, Data mining, Applied Mathematics and Statistics, Scientific Computing,.

Education:

October 1981 .. July 1986

- Study of Physics at Humboldt-University Berlin.

July 1986

- Diploma (Physicist), with best grades in Mathematics and Theoretical Physics

November 1992

- Graduation (Dr. rer. nat.) in Theoretical Physics at Friedrich-Schiller-University Jena/Germany (as an external while affiliated with Max-Born-Institute in Berlin). Topic: Numerical calculation of the X-ray intensity in laser induced plasmas.

Spring 2008

- Post-gradual study “Time series analysis” (passed with special distinction)