

CURRICULUM VITAE

I V O F . S B A L Z A R I N I

PERSONAL DATA

- Civil status: unmarried
- Nationality: Swiss
- Date of birth: January 16, 1977
- Place of birth: Arbon (TG), Switzerland
- Parents: Katharina Sbalzarini-Weber, Mauro Sbalzarini

CURRENT OCCUPATION

**Assistant Professor (Tenure Track) for Computational Science,
ETH Zürich, Switzerland.**

Associated with the ETH Departments of Computer Science, Biology, and Mechanical Engineering, as well as with the Swiss Institute of Bioinformatics.

Group Leader at the Mediterranean Institute for Life Sciences, Split, Croatia.

Group: Biophysics and Bioinformatics of Bacterial Cells

Research Interests:

- Computational analysis, modeling, and simulation of complex real-world systems
- Applications in cell biology, systems biology, and psychology
- Machine learning, image processing, and bio-inspired optimization
- Efficient algorithms and software infrastructure for large-scale parallel scientific computing

EDUCATION

March 2007 – June 2007

Invited Professor at the Biology Department of Ecole Normale Supérieure, Paris, France

October 2003 – October 2006

Studies in didactics and education science (Höheres Lehramt, Didaktischer Ausweis mit Fachdidaktik Maschinenbau) at ETH Zürich.

April 2002 – January 2006

PhD student at the Institute of Computational Science (Dept. Computer Science) at ETH Zürich under the supervision of Prof. Dr. P. Koumoutsakos.

Thesis topic: Analysis, Modeling, and Simulation of Diffusion Processes in Cell Biology.

- 01-25-2006 PhD graduation at ETH Zürich
- 01-10-2006 PhD thesis defense at ETH Zürich

February 08, 2005 – July 28 2005

Visiting Researcher at the Graduate Aeronautical Laboratories (GALCIT) of the California Institute of Technology (Caltech), Pasadena, CA, USA.

July 16, 2002 – October 04, 2002

Participant in the Center for Turbulence Research's Summer Research Program 2002 Stanford University, Stanford, CA, USA,
and visiting scientist at the NASA Ames Research Center, Moffett Field, CA, USA.

July 01, 2000 – October 23, 2000

Visiting Scientist at the NASA Ames Research Center
National Aeronautics and Space Administration, Moffett Field Federal Airbase
CA, USA

July 01, 2000 – July 31, 2000

Participant in the Center for Turbulence Research's Summer Research Program 2000
Stanford University, Stanford, CA, USA

October 1997 – February 2002

Studies in mechanical engineering (D-MAVT) at ETH Zürich
8092 Zürich, Switzerland

Majors: Control and Computational Science

- 06-07-2002 Diploma graduation in mechanical engineering at
ETH Zürich (Dipl. Masch.-Ing, ETH)
- 02-28-2002 Completion of Diploma Thesis: "Diffusion in the Endoplasmic
Reticulum – Theoretical Foundations, Computer Simulations,
Models"
- 11-06-2001 Final diploma exams at D-MAVT
- 10-19-1999 2nd pre-diploma graduation at D-MAVT of ETH Zürich
- 10-23-1998 1st pre-diploma graduation at D-MAVT of ETH Zürich

September 01, 1997 – October 10, 1997

Internship at Sulzer Wintec AG
8401 Winterthur, Switzerland

August 17, 1992 – January 31, 1997

High school of mathematics and science Wattwil, Kantonsschule Wattwil
9630 Wattwil, Switzerland

- 01-17-1997 Matura graduation type C (mathematics & science)

AWARDS

- Chorafas Science Award for the Ph.D. thesis in 2006.
- Willi Studer Award for the best Diploma result in mechanical and process engineering 2002. GPA: 5.98/6.0, rank 1 out of 70.

- Award by ETH for the best exam results in spring 2000 in mechanical and process engineering.
- Award by ETH for the best 2nd pre-diploma results 1999 in mechanical and process engineering. Rank 1 out of 158.
- Award by ETH for the best 1st pre-diploma results 1998 in mechanical and process engineering. Rank 1 out of 230.
- Helvetia-Patria Award for the best over-all result in 1997 Matura graduations.
- E. Weber Award for the best results in mathematics and science of the 1997 Matura graduates.

LANGUAGES

Native: German

Foreign languages: English
 French
 Italian

MEMBERSHIPS

July 2007 – present: Member of the Swiss Institute of Bioinformatics (SIB).

April 2006 – present: Member of the Zurich Center for Imaging Science and Technology (CIMST)

Sept 24, 2001 – present: Member of the IEEE, IEEE Control Society, IEEE Society of Biomedical Engineering, and IEEE Computer Society

Jan 25, 2000 – present: Member of the Swiss-American Society (SFUSA)

June 13, 1998 – present: Member of the governing board (Vorstandsmittglied) of the Technical Society of Zürich (TGZ, www.tgz-net.ch)

Jan 1997 – Sept 1998: Consulting member at CiB Consultants in Business

April 1996 – present: Member of the Technical Society of Zürich (TGZ)