

CURRICULUM VITAE

Marc R. Dusseiller

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Education

- **Doctor of Sciences**, *ETH Zürich*, February 2006
- **Diploma in Material Science and Engineering** (equivalent to a MSc ETH), *ETH Zürich*, April 2001
- **Maturität-Diplom**, Typus B (latin), *Kantonsschule Schaffhausen*, July 1995

Experience

- April 07 – now Various private engagements as **freelancing Scientist, Cultural Organisator** and **Artist**, as a **Member of the board** and **President** of **SGMK** (Schweizerische Gesellschaft für Mechatronische Kunst) and Member of the Organization committee of **Dock18**, Room for Mediacultures of the World.
- Writing of a conceptplan for SGMK, fundraising
 - Organization and implementation of workshops and festivals
 - Development of experimental musical instruments,
 - Teaching and communication at the interface between art and science
 - Establishing a public room for technology and art, OpenMechArtLab
 - International attendance and organization of various workshops
 - more about these activities can be found in the cultural portfolio below
- September 08 – now **Lecturer** for Practical Courses and traditional Materials in Sculpting and fine Art at ETH Zürich, Department of Materials.
- February 08 – now **Lecturer** for **Biomedical Microsystems** at **FHNW**, University of Applied Sciences Northwestern Switzerland, School for Life Sciences. Bachelor Course, Planning of a Syllabus, a Lab Course, contacting Partners from Industry, Organization of transdisciplinary Projects between Technical Students and Artists.
- October 06 – March 07 **Postdoc** in the Institute of **Robotics and Intelligent Systems**, ETH Zürich. Development of new concepts and technologies in the field of BioMicroRobotics for application in minimally invasive surgery.
- Defining of a subproject inside an EU project during Kick-off phase
 - Supervision and introduction of new graduate students
- January 06 – July 06 **Postdoc** in the **BioInterfaceGroup**, Laboratory for Surface Science and Technology and in the Laboratory for **Biologically Oriented Materials**, ETH Zürich. Organization and introduction of a team of new graduate students to continue research started with my thesis and kick-off of successor projects towards stem cell research and cell-based platforms for drug development.
- Writing of publications in scientific journals
 - Help with planning of several grant proposals for 4 PhD theses finally funded by SNF, CCMX and EU FP7 (raised around 1'000 kSFr.)
- May 02 – December 05 **PhD student and research associate** in the **BioInterfaceGroup**, Laboratory for Surface Science and Technology, ETH Zürich. Title: "*Micro- and Nanoengineering the 3-dimensional Environment of Cells in Culture*" Diss ETH 16433, Supervision by Prof. M. Textor.
- Technical knowledge achieved in microfabrication, surface functionalization, coating techniques, miniaturized HT cell culture platforms, cell biology and microfluidics
 - Analytical tools used for the investigations range from CLSM, microscopy, Stereo-SEM, 3-D image analysis, AFM and XPS
 - sys_admin of the BioInterfaceGroup IT-structure. Windows and Mac
 - Independent organization of interdisciplinary collaborations between material scientists, engineers and biologists at ETH

	<ul style="list-style-type: none"> • Production of new ideas, simple solutions and future applications in teams by creativity and an innovative spirit • Bridging of engineering and biology by high interdisciplinary communication skills and fast learning capabilities • Student supervision for diploma and semester theses • Integration of several foreign graduate students and visiting researchers from Asia and US
January 02 – April 02	Research assistant in the BioInterfaceGroup , Laboratory for Surface Science and Technology, ETH Zürich; Analysis of protein repelling surfaces. Kick-off of a new research project towards the PhD.
August 01 – September 01	Chemistry teacher , Kantonsschule Schaffhausen. <ul style="list-style-type: none"> • Description of complex topics in a comprehensibly language
May 01 – now	Scientific animations producer for different academic courses. <ul style="list-style-type: none"> • Use of new media technologies for the visualization of scientific content and education, Programs: Macromedia Flash, Maya, Powerpoint, Cinema 4D • Communication of scientific information for different levels on education
April 01	Diploma thesis , " <i>Tribological Properties of Topographically Structured Polymer Films</i> ", Laboratory for Surface Science and Technology , ETH Zürich; microstructuring of polymers and new coating methods, different tribometers, AFM.
October 95 - April 2001	Student of Material Science and Engineering , ETH Zürich; 1 st Semester theses in the field of solution behavior of polymers performed at the Institute of Polymer Technology, ETH Zürich and 2 nd thesis about nanoparticle coating of biomaterials, performed in the University of Nottingham , UK. Internships at ABB Corporate Research Ltd. , Baden (CH) in the field of superconducting current limiters and Tsinghua University , Beijing, P.R. China in the field of high strength functional ceramics. Parttime laboratory assistant on the field of Solid Oxid Fuel Cells at the Institute of Nonmetallic Materials, ETH Zürich, member of the board in the "Verein der Werkstoffingenieure" (now SMW), member of the department commission.

Languages

- Swiss German, mother tongue
- German, very good knowledge
- English, very good knowledge
- French, good knowledge
- Chinese (Mandarin), basics - spoken only

Interests

- General reading, news, scientific literature, Internet, Philosophy and Ethics, History of Science, future studies
- Traveling, visited countries: USA, Mexico, UK, South Africa, China, Venezuela, Scandinavia, Eastern and Western Europe
- Music, experimental electronic music, self-made musical instruments, circuit bending, DIY
- Recreational activities including social networking, urban lifestyle and natural environments, traditional boat punting, forest cultivation and restoration of a wooden holiday cottage
- Movies and animation for art, fun and education
- Member of the board and President of the [Schweizerische Gesellschaft für Mechatronische Kunst](#). Organization of workshops and DIY festivals for the integration of art, education, technology and science

Appendix

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Appendix A - Scientific Achievements
Appendix B - Diplomas and Certificates
Appendix C - Letters of Reference
Appendix D - Cultural Activities (german)

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