

## Henning Müller: Curriculum Vitae

### Private address:

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### Work addresses:

Business Information Systems  
University of Applied Sciences Western Switzerland, Sierre (HES-SO)  
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### Medical Informatics

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### Education

2010 Training course on Urbanization of information systems at Orsys, Lyon, France  
2002-2008 Habilitation for the title of privat-docent at the medical faculty of the University of Geneva, submitted in May 2008, official lecture held in November 2008  
2008 Training course on Agile software development models at ValTech, Paris, France  
1998-2002 PhD Studies in Image Processing, University of Geneva, Switzerland on User Interaction and Performance evaluation in content-based visual information retrieval; thesis nominated for the Latsis price of the best thesis of the University of Geneva  
2001 Research exchange with Monash University, Melbourne, Australia with a scholarship of the Swiss National Science Fund (FNRS (83R-064270))  
1997-1998 Internship at the Vehicle Systems Technology Centre (VSTC) of Daimler Benz Research and Technology North America (RTNA) in Portland, OR, USA with a scholarship of the Carl Duisberg Society in a program of the German Ministry of the Exterior  
1994-1997 Diploma Studies in Medical Informatics, Technical School Heilbronn and University of Heidelberg, Germany  
1992-1994 Pre-diploma Studies in Medical Informatics, Technical School Heilbronn and University of Heidelberg, Germany  
1982-1991 High School, Gymnasium Herderschule Rendsburg, Germany  
1978-1982 Elementary School, Theodor-Storm-Schule Hohn, Germany

### Working Experience

Since 2011 Named responsible for the eHealth unit of the research institute in business information systems at the HES-SO Sierre, so vice-director of the research institute  
Since 2010 Position of full professor at 100% at the HES-SO Sierre, assistant professor position at 5% at the University of Geneva, Switzerland  
2008-2010 Assistant professor position at the University of Geneva, medical faculty, at 20% (suppléant d'enseignement et de recherche)  
2007-2010 Full professor at the University of Applied Sciences at Sierre, Switzerland, in the business informatics section on business information systems (at 80%)  
2002-2008 Postdoctoral research and teaching position at the service for medical informatics at the University Hospitals of Geneva and the University of Geneva (initiator and leader of the *medGIFT* project) with Prof. Geissbuhler, (reduction of the activity to 20% since November 2007)  
2005 Research visit at OHSU in Portland, Oregon with Prof. Hersh on the Evaluation of medical image retrieval systems (ImageCLEF)  
1998-2002 Research and teaching assistant at the University of Geneva with Prof. Pun, development of a content-based image retrieval system (*GIFT*) in a research project (*Viper*), teaching of computer science courses for adults and life science students  
2001 Research exchange with Monash University in Melbourne, Australia on learning from user behavior for content-based image retrieval with Dr. Squire  
1997-1998 Internship at the Daimler Benz Research and Technology North America in Portland, Oregon, Development of CAN communication routines for trucks in a project for a radar based cruise control  
1996-1997 Research Assistant at the German Cancer Research Center (DKFZ) in Heidelberg, Germany, planning and development of DICOM routines for the teleradiology system CHILI on various platforms (Prof. Meinzer and Dr. Engelmann)  
1995-1996 Research Assistant with Prof. Dickhaus and Prof. Khadra at the Technical School in Heilbronn, Analysis of ECG-signals of heart transplanted patients with Wavelets and chaos theoretical approaches

- 1994 Study thesis for Prof. Peter at the Technical School Heilbronn, development of a multimedia demonstration of the Technical School Heilbronn for a congress, developed on Sun Solaris with the tool Sybase Gain Momentum
- 1991-1992 Military service at the German air force, Airport Hohn. Work as a dispatcher in the Aeronautical Information Service (AIS)
- 1990-1998 Programmer for the *GSbG* in Kiel and Ahrensburg and for SET software development; planning, structuring, development, programming and maintenance of software, hotline services, user training; development of user guides and graphical evaluations; programming was performed in Pascal and Excel on IBM computers
- 1990-1992 *Geriatric*: research project about the health and treatment of older people for the federal state of Schleswig-Holstein
- 1992-1994 *KraBe*: project for medical insurance companies on the comparison of the economics (cost structures per diagnosis) of different hospitals in Germany
- 1992-1995 *Abins*: hospital information and billing system, test project of the German Ministry of Health for diagnosis related groups and billing with fixed prizes
- 1993-1998 *AbinsNeu*: hospital information and billing system integrating Germany's billing laws for billing based on telecommunication
- 1990-1992 Planning, development, and marketing of a school management program
- 1990-1991 Development of a program for schools for the automatic evaluation of track and field games using punch cards and an automatic card reader
- 1987-1991 Programmer for Kronas Lernsysteme, Meldorf Germany Conception and programming of educational software and software for signal processing on a C64 in Assembler and Basic

### Language Skills

- German mother tongue
- English fluent in speaking and writing
- French fluent in speaking and writing
- Spanish notions
- Latin school knowledge of four years

### Membership in scientific organizations

- |            |            |   |
|------------|------------|---|
| 2009- 2010 | MICCAI     | Medical Image Computing and Computer Assisted Intervention            |
| 2005-      | ACM SIGIR  | Special Interest group in information retrieval                       |
| 2003-      | IEEE       | Institute for electrical and electronical engineers                   |
| 2003-      | EFMI-MIP   | European federation for medical informatics, medical image processing |
| 2003-      | GMDS AG BV | Working group on medical imaging in the GMDS                          |
| 2003-      | SGMI       | Schweizer Gesellschaft für Medizinische Informatik                    |
| 2000-      | IAPR       | International Association for Pattern Recognition                     |
| 2000-      | ACM SIGMOD | Special Interest Group on the Management of Data                      |
| 1995-      | GI         | Gesellschaft für Informatik   |
| 1995-      | GMDS       | Gesellschaft für medizinische Informatik, Biometrie und Epidemiologie |

### Scientific committees

- Program committee member of Louhi 2013, Sydney, Australia
- Scientific Committee for MIE 2012, Pisa, Italy
- Scientific Committee of MICCAI 2012, Nice, France
- Program Committee of CLEF 2012, Rome, Italy
- Scientific Program Committee for Healthgrid 2012, Amsterdam, The Netherlands
- Scientific Program Committee of IADIS eHealth 2012, Lisbon, Portugal
- Scientific Committee of GPC 2012, Hong Kong
- Scientific Committee of IJCNN 2012, Brisbane, Australia
- Scientific committee CBMS 2012, Rome, Italy
- Technical Program Committee of MUE 2012, Madrid, Spain
- Scientific Committee of LREC 2012, Istanbul, Turkey
- Scientific Program Committee of AFIN 2012, Rome, Italy
- Organizer of the 1<sup>st</sup> workshop on search computing, 2012, Brussels
- Scientific Program Committee of ECIR 2012, Barcelona, Spain
- Program committee of Visapp 2012, Rome, Italy
- Scientific Committee of BVM 2012, Berlin Germany
- Scientific committee of DESIRE workshop at CIKM 2011, Glasgow, United Kingdom
- Organizer of ImageCLEF 2011, Amsterdam, The Netherlands
- Scientific Committee of workshop on medical image retrieval at ACM Multimedia, Scottsdale, AR, USA
- Scientific Committee of CLEF 2011, Amsterdam, The Netherlands
- Scientific Committee of MDM/KDD 2011, San Diego, CA, USA
- Scientific Committee of MICCAI 2011, Toronto, Canada
- Scientific Committee KDIR 2011, Paris, France
- Scientific Committee of MIE 2011, Oslo, Norway
- Program Committee of MISI 2011, Vienna, Austria

Scientific Committee IARIA Future Internet 2011, Nice, France.  
Workshop selection group member for TPDL 2011, Berlin, Germany  
Scientific Committee BIOCAMP 2011, Las Vegas, NV, USA  
Special session organizer on Medical image analysis for decision support at IMAGEAPP 2011, Algarve, Portugal  
Scientific Committee ADVComp 2011, Lisbon, Portugal  
Scientific Committee of IASTED Int. Conference on Computer Vision (CV 2011), Vancouver, BC, Canada, 2011  
Scientific Committee for the EFMI STC Conference 2011, Laško, Slovenia  
Scientific Committee of the IRF Conference 2011, Vienna, Austria  
Scientific Committee IADIS eHealth 2011, Rome, Italy  
Scientific committee of Internet 2011, Luxembourg  
Scientific Committee of IMAGAPP 2011, Algarve, Portugal  
Scientific Committee ECIR 2011, Dublin, Ireland  
Program Committee GPC 2011, Oulu, Finland  
Scientific Committee for IASTED CGIM 2011, Innsbruck, Austria  
Technical Program Committee at User Centered Content Technologies, NEM Summit 2010, Barcelona, Spain  
Program Committee for the Asian Conference of Computer Vision (ACCV) 2010, Queenstown, New Zealand  
Scientific Program Committee at the Multimedia Data Mining workshop ad KDD 2010, Washington, DC, USA  
Local Organizer for the Agile Tour 2010, Sierre, Switzerland  
Scientific Committee of CLEF 2010, Padova, Italy,  
Scientific Committee of eHealth 2010, Casablanca, Morocco  
Scientific Committee of HealthGrid 2010, Paris, France  
Scientific Committee for ECCV 2010, Heraklion, Greece  
Scientific Committee AMIA 2010, Washington, DC, USA  
Scientific Committee WCCI 2010, Barcelona, Spain  
Scientific Committee EFMI Special Topic Conference 2010, Reykjavik, Iceland  
Panel Selection Committee, ECDL 2010, Glasgow, Scotland  
Program Committee SIGIR 2010, Geneva, Switzerland  
Scientific Committee of ICPR 2010, Istanbul, Turkey  
Scientific Committee ADVComp 2010, Florence, Italy  
Scientific Committee of MCCSIS 2010, IADIS eHealth, Freiburg, Germany  
Scientific Committee LREC 2010, Valetta, Malta  
Scientific Committee IRFC 2010 Vienna, Austria  
Program Committee Internet 2010, Valencia, Spain  
Program Committee AFIN 2010, Venice, Italy  
Local Organization Committee member of CARS 2010, Geneva, Switzerland  
Scientific Program Committee member BVM 2010, Aachen, Germany  
Program Committee of CIGM 2010, Innsbruck, Austria  
Technical Program Committee for GPC 2010, Hualien, China  
Scientific Committee SAC 2010, Crans Montana, Switzerland  
Scientific Committee of IR Workshop 2009, Darmstadt, Germany  
Scientific Program Committee ACCV 2009, Xian, China  
Organizer of a Japan/Switzerland seminar on Grid networks in the health sector 2009, Grimentz, Switzerland,  
Co-organizer of a workshop on medical content-based retrieval at MICCAI 2009, London, UK  
Steering Committee of CLEF 2009, Corfu, Greece  
Organizer of ImageCLEF 2009, Corfu, Greece  
Organizer of the ImageCLEF/theseus workshop on image retrieval evaluation 2009, Corfu, Greece  
Scientific Program committee of the eHealth Conference MCCSIS 2009, Algarve, Portugal  
Scientific Committee SIGIR 2009, Boston, USA  
Scientific Committee of HealthGrid 2009, Berlin, Germany  
Steering Committee member CLEF 2009, Corfu, Greece  
Scientific Committee of ADVComp 2009, Malta  
Member of the K3D expert group of 3D in biomedicine  
Scientific Committee of the Challenges for Grids in Healthcare workshop at ccGrid, Shanghai, China, 2009  
Program Committee of Internet 2009, Cap Esterel, France  
Program Committee of AFIN 2009, Athens, Greece  
Workshop chairman of GPC 2009, Geneva, Switzerland  
Program Committee of GPC 2009, Geneva, Switzerland  
Program Committee of ICTAI 2008, Dayton, OH, USA  
Program Committee of the Workshop on Information Access to Cultural Heritage at ECDL, Aarhus, Demark, 2008  
Scientific Committee of HealthGrid 2008, Chicago, IL, USA  
Scientific Committee of IR Workshop 2008, Würzburg, Germany  
Steering Committee member of CLEF 2008, Aarhus, Denmark  
Organizer of ImageCLEF 2008, Aarhus, Denmark  
Organizing chair of the Swiss conference on medical informatics 2008, Sierre, Switzerland  
Program Committee SIGIR 2008, Singapore, 2008

Scientific Program Committee LREC 2008, Marrakesh, Morocco, 2008  
Program committee of the workshop on novel methodologies for evaluation in information retrieval, Glasgow, Scotland, 2008  
Scientific program committee member ADVCOMP, Valencia, Spain, 2008  
Program Committee ICPR 2008, Tampa, FL, USA  
Section editor of the IMIA Yearbook of Medical Informatics 2008  
IAPR TC5 Steering Committee Member since 2007  
Program Committee ADVComp 2007, Papeete, French Polynesia  
Program Committee of the Workshop on Advanced Searching On Voice, Video, and Speech Contents 2007, Papeete, French Polynesia  
Program Committee of the SIGIR Workshop on Multimedia Retrieval 2007, Amsterdam, The Netherlands  
Steering Committee CLEF 2007, Budapest, Hungary  
Organizer of ImageCLEF 2007, Budapest, Hungary  
Organizer of the MUSCLE/CLEF workshop on image and video retrieval evaluation 2007, Budapest, Hungary  
Program Committee SIGIR 2007, Amsterdam, the Netherlands  
Organizing chair of healthGrid 2007, Geneva, Switzerland  
Program Committee and Publication Chair MIMI 2007 (Medical Imaging and Informatics), Beijing, China  
Steering Committee of CLEF 2006, Alicante, Spain  
Organizer of ImageCLEF 2006, Alicante, Spain  
Organizer of the MUSCLE/CLEF workshop on image and video retrieval evaluation 2006, Alicante, Spain  
Program Committee ICICT 2006, Giza, Egypt  
Program Committee of SIGIR 2006, Seattle, WA, USA  
Member of the local organizing committee of MIE 2005 (Medical Informatics Europe), Geneva, Switzerland  
Member of the program committee of MIT 2005 (Medical Imaging and Telemedicine), WuYi Mountain, China  
Steering Committee member CLEF 2005, Vienna, Austria  
Organizer of ImageCLEF 2005, Vienna, Austria  
Organizer of the MUSCLE/CLEF workshop on image and video retrieval evaluation 2005, Vienna, Austria  
Special session co-organizer on medical image retrieval at ACM Multimedia 2005, Singapore (Brave new topics together with Qi Tian and H. K. Huang)  
Program committee member of the Workshop on Similarity Measures for Content-Based Multimedia Retrieval at the 8th International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES2004), Wellington, New Zealand  
Steering committee member CLEF 2004 (Cross Language Evaluation Forum), Bath, England  
Organizer of ImageCLEF 2004, a benchmarking event in image retrieval, Bath, England  
Program Committee member of the SPIE Conference on Electronic Imaging 2002, San Jose, CA, USA.

#### **Editorial boards**

Editorial board member of the International Journal On Advances in Intelligent Systems since 2012  
Editorial Board member of the Journal Recent Patents in Medical Imaging since 2009  
Editorial Board member of the Journal of Healthcare Engineering since 2009  
Editorial Board member of the Journal Future Internet, 2009-2011  
Editorial Board member of Methods of Information in Medicine, 2009-2012  
Editorial Board member of the open medical informatics journal since 2008  
Associate Editor of the Journal Computerized Medical Imaging and Graphics since 2008

#### **Scientific activities**

Invited speaker at the Bern University of applied sciences FP7 day, Bern, November 24, 2011.  
Tutorial chair for SIGIR 2012, Portland, OR, USA  
Workshop organizer on Medical image retrieval at the MICCAI conference in Nice, France, 2012  
Advisory Committee member for the Goldminer medical search engine of the American Roentgen Ray Society since 2011  
Invited speaker at the Spanish conference on natural language processing, La Huelva, Spain, 2011  
Steering Committee of the ELIAS project of the European Science Foundation, 2011-2016  
Workshop organizer on Medical image retrieval at the MICCAI conference in Toronto, Canada, 2011  
Special issue organizer for Methods of Information in Medicine on Medical information retrieval, 2012  
Workshop organizer at MIE 2011 on medical information retrieval, Oslo, Norway  
Workshop organizer on Medical information retrieval at MIE 2011, Oslo, Norway  
Panel invitee on translational medicine at MIE 2011 Oslo, Norway  
Invited speaker at the Iranian Congress of Radiology 2011, Tehran, Iran  
Invited speaker at the Italian patent search conference 2011, Cagliari, Italy  
Invited speaker at Xerox research center, February 2011, Grenoble, France  
Invited speaker at the IBM Medical Informatics Day 2010, Haifa, Israel  
Work package leader in the EU FP7 project Promise  
Coordinator of the EU FP7 Project Khresmoi  
Tutorial Presenter at MedInfo 2010 on HealthGrids, Cape Town, South Africa, 2010  
Invited Speaker at the Information Retrieval Facility Conference on visual analysis for patent retrieval, Vienna, Austria, 2010

Panel invitation at the IRFS on visual information analysis for patent retrieval, Vienne, Austria  
 Contest organizer at ICPR 2010 on image retrieval, Istanbul, Turkey  
 Special session organizer at MIR 2010, Philadelphia USA  
 Invited tutorial presenter for the TrebleCLEF summer school 2009, Pisa, Italy  
 Invited speaker at the Swiss database days (DBTA) 2008, Basel, Switzerland  
 Invited presenter of a tutorial on medical image retrieval at the autumn school 2008, Fribourg, Switzerland  
 Tutorial presenter on image retrieval at ICPR 2008, Tampa, FL, USA  
 Invited Speaker at AITTH 2008, Minsk, Belarus  
 Invited Speaker at ICT4health 2008, Manila, The Philippines  
 Panel invitee at SPIE Medical Imaging 2008, San Diego, USA  
 Workshop moderator at medinfo 2007 on trusted medical information on the Internet, Brisbane Australia  
 Session chair at medinfo 2007, Brisbane, Australia  
 Panel invitee at ISHIMR 2007, Sheffield, England  
 Session chairman at HealthGrid 2007, Geneva, Switzerland  
 Session moderator PACS and interactive viewing stations at ECR 2007, Vienna, Austria  
 Invited speaker at the MedCAST workshop 2006, Darmstadt, Germany  
 Session Chairman at MIE 2006, Maastricht, The Netherlands  
 Tutorial presenter on medical image retrieval at MIE 2006, Maastricht, The Netherlands  
 Architecture Board Member of the EU project AneurIST 2006-2007  
 Board member of the EU project KnowARC, 2006-2009  
 Member of a panel for medical informatics education, Bath University, England, 2006  
 Invited Speaker at MIT 2005, WuYi Mountain, China  
 Session chairman at MIT 2005, WuYi Mountain, China  
 Tutorial presenter on medical image retrieval at MIE 2005, Geneva, Switzerland  
 Workshop organizer at MIE 2005, Geneva, Switzerland  
 Workshop organizer of the EFMI WG medical image processing at MIE 2005, Geneva, Switzerland  
 Session chairman at gmds 2004, Innsbruck, Austria  
 Tutorial presenter on medical image retrieval at medinfo 2004, San Francisco, CA, USA  
 Session chairman at the 2001 workshop on Multimedia Information Retrieval at the ACM Multimedia Conference, Ottawa, Canada, 2001.  
 Organization member of the Benchathlon, initiative for benchmarking image retrieval applications (2001-2004)

#### **Reviewer**

- National Science Foundation (NSF) Fellowship program, USA
  - Netherlands Organization for scientific research, The Netherlands
  - Netherlands Organization for health research and development, The Netherlands
  - Swiss National Science Foundation (SNF), Switzerland
  - Singapore research organization, Singapore
  - The Hashemite University, Jordan
  - French science foundation, France
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- MICCAI 2011, 2012
  - ACCV 2010
  - ECIR 2011
  - EFMI STC 2010, 2011
  - WCCI 2010, 2011, 2012
  - IADIS eHealth 2009, 2010, 2011, 2012
  - IARIA Internet 2010, 2011
  - IARIA Computer Vision 2011
  - IRFC 2010, 2011, 2012
  - CGIM 2010, 2011
  - ICR 2011
  - BVM 2010
  - ITAB 2009
  - CBMS 2012
  - ACCV 2009,2010
  - Future Internet 2009, 2010, 2011
  - Future Internet book, 2011, 2012
  - AFIN 2009
  - HealthGrid Workshop at ccGrid 2009
  - GPC 2009, 2010, 2011
  - Workshop cultural heritage retrieval at ECDL 2008
  - ICPR 2008, 2010
  - WIR 2008, 2009
  - LREC 2008, 2009, 2010
  - SSIM 2008

- ADV COMP 2007, 2008, 2009, 2010, 2011
- MIMI 2007
- HealthGrid 2007, 2008, 2009, 2010, 2011, 2012
- PARA 2006
- SIGIR 2006, 2007, 2008, 2009, 2010, 2011
- MIE 2006, 2009, 2012
- ICICT 2006
- MIT 2005
- CLEF 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011
- MedInfo 2004, 2007
- GMDS 2004
- Workshop on Similarity Measures for Content-Based Multimedia Retrieval at the 8th International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES2004)
- ACM Multimedia Conference 2002

- Medical Image Analysis
- Image and Vision Computing
- Knowledge-Based Systems
- International Journal of Digital Libraries
- Data and Knowledge Engineering
- Future Generation Computer Systems
- Information Processing and Management
- Computational Intelligence of Medical Imaging (book)
- Pattern Recognition
- Computer Vision and Image Understanding
- Yearbook on medical informatics 2007, 2008, 2009, 2010
- Database and Knowledge Engineering
- Open Medical Informatics Journal
- Optics Communications
- International Journal of Pattern Recognition and Artificial Intelligence
- Pattern Analysis and Applications
- Journal of Digital Imaging
- Machine Vision and Applications
- EURASIP Journal of Image and Video Processing
- Expert Opinion in Drug Discovery
- International Journal of Human Computer Studies
- Computer Methods and Programs in Biomedicine
- International Journal on Dentomaxillofacial Radiology
- Journal of Artificial Intelligence in Medicine
- Software Practice and Experience
- BiomedCentral Cytojournal
- Biomedcentral, Biomedical Informatics and Decision Making
- Biomedcentral, Medical Imaging
- BMC Bioinformatics
- Open Environmental and Biological Monitoring Journal
- Computerized Medical Imaging and Graphics
- Information Retrieval
- ACM Multimedia Systems Journal
- IEEE Transactions on Medical Imaging
- IEEE Transactions on Mobile Computing
- IEEE Transactions on Information Technology in Biomedicine
- International Journal of Images and Graphics
- Journal of Visual Languages and Computing
- Parallel Processing Letters
- European Journal of Radiology
- International Journal of Medical Informatics
- Methods of Information in Medicine
- Medical Engineering and Physics
- Journal of Zhejiang University
- Iranian Journal of Electrical and Computer Engineering

#### **University activities**

Member of the commission for EPFL Valais and the health campus, Sion for the canton of Valais (2012-)  
 Comité directeur of the medical informatics certificate of the University of Geneva (2012-)  
 External PhD supervisor for Markus Kreuzthaler, Medical University Graz, Austria, (2011-)  
 Internship supervisor for Sharib Ali on image registration and matching (2011)

Supervisor for developer Roger Schaer (2012-)

Bachelor thesis supervisor for Daniel Imhof on a data acquisition setup for clinical data including images (2011)

Bachelor thesis supervisor for Francois-Julien Chabbey on a data acquisition setup for myography signals (2011)

External PhD expert for Donn Morrison, University of Geneva, Switzerland (2011)

External PhD expert for Roxana Theodoresca, University of Besançon, France (2011)

External PhD expert for Rehan Ullah Khan, University of Vienna, Austria, (2011)

External PhD expert for Stefanie Nowak, Fraunhofer Society and Technical University of Ilmenau, Germany (2011)

Supervisor for postdoctoral researcher Manfredo Atzori (2011-2013)

Supervisor for postdoctoral researcher Adrien Depeursinge (2010-2012)

Supervisor for postdoctoral researcher Theodora Tsikrika (2011-2012)

PhD supervisor for Dimitris Markonis on multimodal medical information retrieval (2010-)

PhD supervisor for Antonio Foncubierta on multidimensional image analysis (2010-)

PhD supervisor for Alba Garcia Seco de Herrera on image retrieval (2010-)

External PhD expert for Adina Eunice Tutac, University of Timisoara, Romania (2010)

Bachelor thesis supervisor for Samuel Werner on a publication management system (2010)

Bachelor thesis supervisor for Roger Schaer on expert search in enterprise document repositories (2010)

Bachelor these supervisor for Samuel Duc on mobile visual information search (2010)

Bachelor thesis supervisor for Jonas Cicognini on crawling of visual repositories to generate training data (2010)

PhD supervisor of Jukka Kommeri on using Grid networks for image retrieval (2010-2011)

Master thesis supervisor in quality management for Frédéric Fragnière on managing data exchange quality between hospitals and external actors (2010)

External PhD expert for Sata Busayarat at the University of New South Wales, Sydney, Australia (2009)

Bachelor thesis supervisor for Gilles Rudaz on 3D information retrieval (2009), prize of the best bachelor thesis

Work with Bruno Alves and David Godel as research assistants (2009-2010)

Work with Ivan Eggel as research assistant (since 2009)

Bachelor thesis supervisor for Ivan Eggel on retrieval of complex documents (2008), prize for best student

Bachelor thesis supervisor for Frédéric Gaillard on an interface for visual retrieval including 3D data (2008-2009)

Internship supervisor for Alejandro Vargas on the creation of a database of interstitial lung disease (since 2008)

Internship supervisor for Herizo Andriamboloniaina on the creation of a database of lung disease (2008)

Work on projects with scientific assistants Alain Duc and Ludovic Martone (2008)

Supervisor of postdoctoral senior researcher Marko Niinimäki in the KnowARC project (2008)

External PhD expert for Jade Qian at Middlesex University, London, UK (2008)

Diploma Supervisor for Nicolas Coutaz at the HES Sierre on coupling several proprietary systems using SOA for integration into a BPM system (2007)

Diploma Supervisor for Matthieu Giotta at the HES Sierre on Data Mining in a medical data warehouse (2007), bachelor proposed as best scientific work in Valais

PhD supervisor for Xin Zhou on using grid networks for medical image retrieval (2006-2011)

PhD supervisor for Mikko Pitkänen on the use of grid technologies for information retrieval (2006-2007)

PhD supervisor for Jimison lavindrasana on access to medical records and multimodal data mining (2006-2010)

PhD supervisor for Adrien Depeursinge lung CT as diagnostic aid (2006-2010)

Internship supervisor for Asmaa Hidki on the creation of a medical database of interstitial lung disease cases (2006-2007)

Internship supervisor for Phuong Ang Do Huang on image retrieval in a database of fractures (2006)

Internship supervisor for Tobias Gass on the use of tf/idf weighting for image classification (2006)

Tutor in the problem-based learning activities of the medical faculty, university of Geneva (2004-2007)

Representative of the medical faculty in the commission on computer services for students at Geneva University (2004-2007)

Member of the informatics commission of the medical faculty (since 2003)

Responsible for 12 student assistants maintaining the computer system and a help desk at the library of the faculty of medicine (2003-2007)

External expert for the diploma defense of Sébastien Pansier (2005)

Supervision of a medical intern Ivan Topolski on the use of open source software in the medical domain (2005)

Supervision of an intern on medical image analysis, Samuel Marquis (2005)

Supervision of a diploma student (Samuel Marquis) on medical image analysis (2004-2005)

Supervision of a student doing his civil service on medical image processing. Joris Heuberger (2004)

Jury member of four diploma theses at the EPFL 2002 group of Michael Unser (2002)

Jury member in a diploma thesis at the University of Geneva, Tatiana Louchnikova (2001)

Supervisor of a license project (Cornelia Luoni) at the University of Geneva (2000)

Co-Supervisor of a diploma project (Jilali Raki) at the University of Geneva (1999)

### Teaching

Since 2008	Master course in Research methodology in a Master in Business Administration program of the HES SO (3 ECTS)
Since 2008	Course on Agile and iterative software development methods and software factories, HES SO Sierre (3 ECTS)
Since 2007	Course on Information system management and project management for creating institution-wide

	information systems, HES SO Sierre (5 ECTS)
Since 2009	Course on Agile Project Management in a continuing education course in medical informatics at the University of Geneva
Since 2009	Course on Agile software development at the University of Fribourg, Switzerland
2007	Course on the Master level on Picture Archiving and Communication Systems at INSA Lyon, France together with David Bandon
2004-2007	Tutor in problem-based learning in the introduction group for medical students (Subjects: SARS, West Nile virus, the flu, viruses and their working mechanisms and vaccinations, privacy protection, information search)
2002-2007	Introduction to medical information search, exercises for medical students, University of Geneva, Switzerland
2002-2009	Organization of various courses for the certificate in medical informatics of the continuing education of the University of Geneva: Agile project management Communication protocols DICOM, HL7 Internet Security of networks XML
	Modeling hospital information systems, 3LGM
2000	Introduction to the Internet and computer science - Part of the continuing education program of the University of Geneva
1999-2002	Creation of an online course on medical image processing for medical students within the project "computers for health" (C4H) of the Swiss Virtual Campus
1998-2002	Introduction to computer science and programming for life science students (biology, pharmacy)
	<b>Grants</b>
2012	Grant for the PROMISE winter school from the CUSO (11'252 CHF)
2012	Grant for supporting winter school scholarships (7500 Euros from the ELIAS project)
2012	Grant for the winter school from the HES-SO (5000 CHF)
2012	Grant for the winter school from the PROMISE project (30'000 Euros)
2012-2014	CALL project of the HES-SO (850'000 CHF, 80'000 for the HES-SO Valais)
2011-2013	RCSO project of the HES-SO called Lamia on computing architectures (151,500 CHF funded)
2011-2013	NinaPRO project on prosthesis analysis (total budget of 950'000 CHF, budget HES-SO 420'000 CHF)
2011-2015	ESF funding for ELIAS project (450'000 Euros in total, mainly for research exchanges, events)
2011-2015	FP7 Marie Curie action WIDTH (500'000 Euros in total, among them 54'000 Euros for the HES-SO)
2010-2011	MultisiteARC SWITCH AAA project in collaboration with the HES-SO Genève (2'500 CHF)
2010	Help for Swiss FP7 coordinators from the Swiss confederation (7'000 CHF)
2010-2014	Khresmoi FP7 IP project on medical information retrieval (Budget 8'100'000 € and 1'700'000 for the HES-SO)
2010-2013	Promise FP7 NoE on information retrieval evaluation (Budget of 3'200'000 € and 320'000 for the HES-SO)
2010-2012	Swiss National Science Foundation for the MANY project (334'000 CHF)
2010	Internal HES-SO funding for EU projects (190'000 CHF)
2010	Internal HES-SO funding for Agile Tour (5'000 CHF)
2010-2011	Internal HES-SO funding for a book project on ImageCLEF (31'500 CHF)
2010-2011	SWITCH project on security aspects in medical Grid projects, collaboration with CERN and University of Berne (38'500 CHF for the University of Geneva)
2009-2010	Collaboration with CERN to fund Xin Zhou (15'000 CHF)
2009-2012	Funding for the Chorus FP7 EU project (1'100'000 Euros in total with 97'000 Euros for the University of Applied Sciences Western Switzerland in Sierre)
2009	Funding for relevance judgments of the TrebleCLEF project (5000 Euros)
2009	Funding of the Swiss National Science Foundation to organize a Switzerland/Japan seminar on Grid networks in the medical domain (12'300 CHF)
2009	Funding of the Swiss National Science Foundation to fund the Grid and Pervasive Computing conference (3'500 CHF)
2009	Funding for a pre-CLEF workshop on visual information retrieval organization (Theseus project, ~3'000 Euros)
2008-2009	Grant of Switch together with Bastien Chopard and Nabil Abdenadher on Grid networks, EZ-Grid (60'000 CHF University of Geneva, 40'000 CHF HES SO)
2008	Grant of the TrebleCLEF project for a tutorial at ICPR, Tampa, FL, USA (2'500 Euros)
2008	Grant of the HES SO for the organization of the SSIM conference (15'000 CHF)
2008	Industrial sponsors for the organization of the SSIM conference (7'000 CHF)
2008	Grant of the Quaero project for a workshop on multimedia retrieval evaluation (2'000 Euro)
2008-2009	Grant for a Call project of the RCSO of the University of Applied Sciences Western Switzerland for



- the project MediCoordination as co-requester with Michael Schumacher (560'000 CHF, 200'000 CHF for HES SO Sierre)
- 2008-2009 Grant from the RCSO of the Universities of Applied Sciences, Switzerland, on the benchmarking of medical visual information retrieval systems, BeMeVIS (241'500 CHF)
- 2008-2009 Grant of the Swiss National Science Foundation for Talisman 2, a project on lung CT analysis (100'480 CHF)
- 2007 Grant of the Administrative Commission of the University of Geneva to finance the healthGrid 2007 conference (8'000 CHF)
- 2007 Funding for a workshop on image and video retrieval evaluation by the FP6 NoE MUSCLE (2'000 Euro)
- 2006-2008 ICT4ASIA project ONCOMedia of the French government for cooperation within Asia (Funding for exchanges and travel, 80'000 Euro), start in November 2006
- 2006 Funding for a workshop on image and video retrieval evaluation by the FP6 NoE MUSCLE (2'000 Euro)
- 2006 Internal University grant for computing infrastructure, Informatics Commission (11'800 CHF)
- 2006-2009 EU project KnowARC on the creation of an easy grid middleware and its use for image retrieval (2'900'000 Euro with 248'000 Euro for UNIGE), start in June 2006
- 2006-2009 EU project Multimatch on the multimodal retrieval of cultural heritage objects (3'100'000 Euro with 230'500 Euro for UNIGE), start in Mai 2006
- 2006 Co-request of a PRD project (internal hospital grant) for the creation of a digital lung CT library with Pierre-Alexandre Poletti (Budget de recherche et de développement des HUG 05-9-II) (49'000 CHF)
- 2006-2007 Research project lung retrieval by the Swiss National Science Foundation (SNF) number 205321-109304-1 (86'600 CHF)
- 2005 Funding for a workshop on image and video retrieval evaluation by the FP6 NoE MUSCLE (2'000 Euro)
- 2004-2007 Co-request of a grant by William Hersh on cooperation between EU FP6 projects (SemanticMining) and NSF projects (GenomicsTREC) (\$100'000)
- 2003-2005 Ragtime - Rhone-Alpes project on the use of grid technologies for medical applications (no funding for Swiss partners possible any more)
- 2001 Grant of the Swiss National Fund (FNRS) for a research exchange with Monash University, Melbourne, Australia (3'500 CHF)
- 1997 Grant of the Carl Duisberg Society in the Deutsch-Amerikanisches Praktikantenprogramm for an internship at the DaimlerBenz Research and Technology in Portland, OR, USA. (8'000 DM)

**Press:**

EUresearch success story 2012  
 Nouvelliste, 2008, 2010, 2010, 2011, 2012  
 Walliser Bote 2010  
 Le temps, 2010  
 L'hebdo, 2010  
 Interview in IRF newsletter, 2010  
 Interview in EUresearch newsletter 2010  
 RSR 1ère, 11.11.2010 6h30, 12h30, 14h00  
 Canal 9, 11.11.2010, 19h