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### **Background:**

I am currently employed as a research scientist at the Norwegian Centre for Telemedicine. I received a Ph.D. from the Computer Science and Electrical Engineering department at Luleå University of Technology in Oct. 2005. My doctoral dissertation is titled *Technology for Supporting Informal Communication in Multimedia Conferencing Systems* and includes interdisciplinary research from fields such as computer networking and human computer interaction.

One of the primary features of my doctoral work was the way in which I conducted prototype-driven research in collaboration with industry. This allowed me to target real-world scenarios and applications, and gave me the opportunity to fully integrate my research prototypes into a commercial product. This was possible because of a partnership with Marratech AB, a Swedish software company that specializes in multimedia conferencing systems, and through participation in projects with the Centre for Distance Spanning Technology, an organization dedicated to applied research and entrepreneurship.

My current research topics are pervasive communication devices for clinicians and the integration of live video from mobile phones into medical emergency call centers.

### **Education:**

**Luleå University of Technology**, Luleå, Sweden, Department of Computer Science & Electrical Engineering

*Doctor of Philosophy* in Media Technology, October 2005.

*Licentiate in Engineering* in Media Technology, May 2003.

**University of Colorado at Denver**, Denver, CO., USA, Department of Computer Science and Engineering

*Bachelor of Science* in Computer Science & Engineering, May 1999.

### **Work Experience:**

**Research Scientist**, Norwegian Centre for Telemedicine, 2005 – current

Full research responsibilities including creating and managing projects, obtaining funding, collaborating with external partners, advising PhD students, and publishing scientific literature.

**Graduate Student**, Luleå University of Technology, 2000 - 2005

Teaching responsibilities included MSc thesis advising, course lecturing and assisting students with course assignments. For 2 terms I had full responsibility as a course instructor

for the course “Introduction to Media Technology”, which included developing the course curriculum and serving as the primary lecturer. Also served as teaching assistant for 2 terms in the course ” Distributed Multimedia”.

**Web Developer**, CyGen Technologies, 1999 - 2000

Involved in the design and implementation of a variety of web technologies including e-commerce sites and a meta-search engine. This included programming in ASP, Visual Basic, VBAcess, C++ and COM. Participated in all aspects of the software development lifecycle from specifying requirements with clients to final stages of testing and maintenance.

## **Publications**

### **Peer-reviewed Publications:**

Jeremiah Scholl, Per Hasvold, Eva Henriksen and Gunner Ellingsen

*Managing communication availability and interruptions: A Study of Mobile Communication in an Oncology Department*

To appear in Proc. International Conference on Pervasive Computing, 2007

Jeremiah Scholl, John McCarthy and Rikard Harr

*A Comparison of Chat and Audio in Media Rich Environments*

In Proc. ACM Conference on Computer Supported Cooperative Work (CSCW), 2006

Jeremiah Scholl, John D. McCarthy, Angela Sasse and Peter Parnes

*Designing a large-scale video chat application*

In Proc. ACM Multimedia, 2005

Johan Kristiansson, Jeremiah Scholl and Peter Parnes

*Managing Bandwidth in Multimedia Applications using a Market-based Middleware*

In Proc. IEEE/IFIP Management of Multimedia Networks and Services (MMNS), 2005

Michael Tscholl, John McCarthy and Jeremiah Scholl

*The effect of video-augmented chat on collaborative learning with cases*

In Proc. Computer Support for Collaborative Learning (CSCL), 2005

Johan Kristiansson, Jeremiah Scholl and Peter Parnes

*Bridging the Gap between Multimedia Applications and Heterogeneous Networks using a Market-based Middleware*

In Proc. IEEE World of Wireless Mobile and Multimedia Networks (WoWMoM), 2005

Stefan Elf, Jeremiah Scholl and Peter Parnes

*Schemes for user-interest controlled video bandwidth adaptation in a collaborative workspace environment*

In Proc. IEEE International Conference on Multimedia and Expo (ICME), 2004

Thomas Bladh, David Carr and Jeremiah Scholl

*Extending Tree-Maps to Three Dimensions: A Comparative Study*

In Proc. Asia-Pacific Conference on Computer Human Interaction (APCHI), 2004

Jeremiah Scholl, Stefan Elf and Peter Parnes

*User-interest Driven Video Adaptation for Collaborative Workspace Applications*

In Proc. ACM Workshop on Networked Group Communication (NGC), 2003

Jeremiah Scholl, Stefan Elf and Peter Parnes  
*Efficient-workspaces through Semantic Reliability*

In Proc. International Conference on Telecommunications (ICT), 2003

Jeremiah Scholl and Peter Parnes  
*Low-Weight Congestion Control for Multi-sender Applications*

In Proc. IEEE/IFIP Management of Multimedia Networks and Services (MMNS), 2002

### **My Theses**

Jeremiah Scholl

*Technology for Supporting Informal Communication in Multimedia Conferencing Systems*

Doctoral thesis, Luleå University of Technology, 2005

ISSN 1402-1544 / ISRN LTU-DT-05/16-SE / NR 2005:16

Jeremiah Scholl

*Network and User-level Traffic Adaptation for Collaborative-workspace Applications*

Licentiate thesis, Luleå University of Technology, 2003

ISSN 1402-1757 / ISRN LTU-LIC-03/24-SE / NR 2003:24

Theses by my master's degree students:

Fredrik Israelsson

*A general Message System for Notification of Events in Industrial Production Systems*

Johan Stenmark

*Operation Monitoring Using JV Analys*

Anders Heintz

*Enabling Open Window for Use with Enterprise Firewalls*

Krister Wicksell

*Managing Fragmented Information*

Pierre Sundberg and Johan Krohn

*Community Television, Development of an Interactive IP-based Broadcaster and Receiver*

Wilhelm Person

*Multicast File Sharing Tool, First generation one-to-many Peer-to-Peer computing*

Susanne Lefvert

*FOSSA, Graphical control application for analysis, manipulation and synthesis of digitised sound*