

# CURRICULUM VITAE

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## GENERAL INFORMATION

Name, First Name      **Huber Gharib, Silvia**  
Address                      Centre for Geo-Information (CGI)  
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E-mail                        silvia.huber@wur.nl  
Date of birth                2 April 1976  
Nationality                 Swiss

## EDUCATION

10. 2003–03. 2008      Remote Sensing Laboratories, **University of Zurich** (Switzerland),  
**PhD degree:** *Estimation of ecologically relevant land cover variables from imaging spectroscopy*

10. 1997–01. 2003      **University of Zurich** (Switzerland)  
**Master of Science in Geography**, title of final thesis work:  
*Interannual vegetation analysis of an agricultural area in Spain using imaging spectroscopy*  
**ETH Zurich** (Switzerland)  
Minors in Agro-ecology and Geology

01.1996                    Secondary school for economics, Zurich (Switzerland), **A-levels**

## ACADEMIC POSITIONS

4. 2008—to date      Postdoctoral fellowship, Laboratory of Geo-Information Science and Remote Sensing, Wageningen University and Research Center, The Netherlands

2003–2008              Research assistant and PhD student in imaging spectroscopy with Prof. Dr. K.I. Itten

2001–2002              Teaching assistant in 'Remote Sensing' with Prof. Dr. K.I. Itten

2000–2001              Teaching assistant in 'Remote Sensing' with Prof. Dr. D. Nüesch

## OTHER PROFESSIONAL ACTIVITIES

2003–2008              Responsible for the SpectroLab Library at the Dept. of Geography, University of Zurich

2004–2008              Responsible for the GPS Pool at the Dept. of Geography, University of Zurich

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1998–2002 Part time administrative function in translation office

## CERTIFICATES

2–7.09.2007 ESA Advanced Training Course on Land Remote Sensing, Lisbon, Portugal

23–25.10.2006 IDL 6.3 Introduction, ETH Zurich

Winter semester 05/06 Writing Research Papers for Publication, Language Centre of the University and the ETH Zurich,

14/21.11.2005 Business Know-How, PRO-WISS, University of Zurich

16/17.03. and 20.04.2004 Project Management of Scientific Projects, PRO-WISS, University of Zurich

## TECHNICAL SKILLS AND COMPETENCES

Language skills <i>level</i>	German <i>mother tongue</i>	English <i>fluent</i>	French <i>fluent</i>	Italian <i>basic</i>
Technical skills	MS-Office (Word, Excel, PowerPoint) Adobe Creative Suite Statistical Software: R GIS software: ArcGIS, ArcView Image Processing: IDL-ENVI, Geomatica, PARGE, ATCOR, BEAM, POLSARPRO Programming languages: R, Matlab, IDL Operating systems: UNIX, MS, MAC OS			

## PERSONAL INTERESTS

Nordic and Alpine Skiing, Hiking, Traveling, Cooking, Reading

## PERSONAL BIBLIOGRAPHY

Peer reviewed journals

**Huber, S.**, Kneubühler, M., Psomas, A., Itten, K., & Zimmermann, N.E. (2007). Estimating Biochemistry in Mixed Forests from HyMap Data using Band-Depth Analyses and Subset Regression Algorithms, *Forest Ecology and Management*, *Under Review*.

**Huber, S.**, Kneubühler, M., Koetz, B., Schopfer, J.T., Itten, K.I., & Zimmerman, N.E. (2007). Contribution of Directional CHRIS/Proba Data for Estimating Canopy Biochemistry in Forest. *Journal of Applied Remote Sensing*, *Under Review*.

Psomas, A., Kneubühler, M., **Huber, S.**, Itten, K.I., & Zimmermann, N.E. (2007). Analysis of Seasonal and Annual Spectral Characteristics for the Discrimination of Grassland Habitats. *Remote Sensing of Environment*. *Under Review*.

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Kneubühler, M., Koetz, B., **Huber, S.**, Zimmermann, N.E. & Schaepman, M.E. (2007). Space-based Spectro-directional Measurements for the Improved Estimation of Ecosystem Variables. *Canadian Journal of Remote Sensing*. Under Review.

Conference and workshop contributions

2007

**Huber, S.**, Kneubuehler, M., Koetz, B., Schopfer, J.T., Zimmerman, N.E., & Itten, K.I. (2007). The potential of spectrodirectional CHRIS/PROBA data for biochemistry estimation. In H. Lacoste & L. Ouwehand (Eds.), *Envisat Symposium*, 23–27 April 2007, Montreux, Switzerland: ESA Communication Production Office, ESTEC, Noordwijk, The Netherlands.

Koetz, B., Kneubühler, M., **Huber, S.**, Schopfer, J.T., & Baret, F. (2007). LAI Estimation Based on Multi-temporal CHRIS/PROBA Data and Radiative Transfer Modelling. In H. Lacoste & L. Ouwehand (Eds.), *Envisat Symposium*. Montreux, Switzerland: ESA Communication Production Office, ESTEC, Noordwijk, The Netherlands.

Schopfer, J.T., **Huber, S.**, Schneider, T., Dorigo, W.A., Oppelt, N., Odermatt, D., et al. (2007). Towards a Comparison of Spaceborne and Ground-based Spectrodirectional Reflectance Data. In H. Lacoste & L. Ouwehand (Eds.), *Envisat Symposium 2007*. Montreux, Switzerland: ESA Communication Production Office, ESTEC, Noordwijk, The Netherlands.

**Huber, S.**, Kneubühler, M., Koetz, B., Schopfer, J.T., Zimmerman, N.E., & Itten, K.I. (2007). Estimating nitrogen concentration from directional CHRIS/Proba data. In *Proc. of the 10th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMSRS)*, 12–14 March 2007, Davos, Switzerland, pp. 462-467.

Visscher von Arx, A., **Huber, S.**, Kneubühler, M., & Itten, K.I. (2007). Leaf area index estimates obtained for mixed forest using hemispherical photography and HyMap data. In *Proc. of the 10th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMSRS)*, 12–14 March 2007, Davos, Switzerland, pp. 456-461.

Koetz, B., Kneubühler, M., **Huber, S.**, Schopfer, J.T., & Baret, F. (2007). Radiative Transfer Model Inversion based on Multi-Temporal CHRIS/Proba Data for LAI Estimation. In *Proc. of the 10th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMSRS)*, 12–14 March 2007, Davos, Switzerland, pp. 344-349.

2006

**Huber, S.**, Kneubühler, M., Koetz, B., Schopfer, J.T., Zimmermann, N.E., & Itten, K.I. (2006). Canopy Biochemistry Estimation Using Spectrodirectional CHRIS Data. In *J.A. Sobrino (Ed.), Second Recent Advances in Quantitative Remote Sensing* (pp. 314-319). Servicio de Publicaciones. Universitat de Valencia, Spain.

Kneubühler, M., Koetz, B., **Huber, S.**, Schopfer, J.T., Richter, R., & Itten, K.I. (2006). Monitoring Vegetation Growth using Multitemporal CHRIS/PROBA Data. In *Proc. of IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 31 July- 04 August 2006, Denver, Colorado.

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Kneubuehler, M., Koetz, B., **Huber, S.**, Schopfer, J.T., Richter, R., & Itten, K.I. (2006). CHRIS/PROBA Data Analysis at the Swiss Midlands Testsite, In *Proc. of the 4th CHRIS/PROBA Workshop*, 19–21 September 2006, Frascati, Italy.

### 2005

**Huber, S.**, Schopfer, J.T., Kneubühler, M., Nieke, J., & Itten K.I. (2005). A New Approach Using Various Remote Sensing Data for Vegetation Parameter Retrieval as Input to Ecosystem Models. In *Proc. of the CEReS International Symposium on Remote Sensing*, 13–14 December 2005, Chiba University, Japan, pp. 209-212.

**Huber, S.**, Zimmermann, N.E., Kneubühler, M., Psomas, A., & Itten, K.I. (2005). Estimating Nitrogen in Mixed Forests from HyMap Data using Band-Depth Analysis and Branch-and-Bound Algorithm. In *Proc. of the 9th International Symposium on Physical Measurements and Signatures in Remote Sensing (ISPMSRS)*, 17–19 October 2005, Beijing, China, pp. 533-535.

**Huber, S.**, M. Kneubühler, N.E. Zimmermann and K.I. Itten (2005). Potential of Spectral Feature Analysis to Estimate Nitrogen Concentration in Mixed Canopies. In *B. Zagajewski and M. Sobczak (Eds.), Imaging Spectroscopy. New Quality in Environmental Studies* (pp. 255-262). Warsaw: EARSeL & Warsaw University.

### 2004

**Huber, S.**, Schopfer, J.T., Kneubühler, M., Nieke J., & Itten, K.I. (2004). A New Approach Using Various Remote Sensing Data for Vegetation Parameter Retrieval as Input to Ecosystem Models. In *Proc. of the ENVISAT & ERS Symposium* 6–10 September 2004, Salzburg, Austria: ESA Communication Production Office, ESTEC, Noordwijk, The Netherlands.

Schaepman-Strub, G., Painter, P., **Huber, S.**, Dangel, S., Schaepman, M.E., Martonchik, J.V., et al. (2004). About the importance of the definition of reflectance quantities - results of case studies. In *Proc. of the XXth International Society for Photogrammetry and Remote Sensing (ISPRS) Congress*, 12–23 July 2004, Istanbul, Turkey, pp. 361-366.