



# Hansi Weißensteiner

## Curriculum Vitae

### Education

- 2009–current **Doctorate Study of technical Sciences**, *Leopold Franzens University of Innsbruck*, Innsbruck.
- 2006–2008 **Masters of Computer Science**, *Leopold Franzens University of Innsbruck*, Innsbruck, Specialized in Database and Information Systems.
- 2002–2006 **Bachelor of Computer Science**, *Leopold Franzens University of Innsbruck*, Innsbruck.
- 1998–1999 **Training for Network Administration**, *ESF*, Brixen.

### Masters Thesis

- Title *GenDB: Eine Genom-Datenbank zur integrierten Speicherung von Genotypen und Phänotypen*
- Supervisor Professor Dr. Günther Specht

### Work

- 2010–Present **Medical Data Manager**, MEDICAL UNIVERSITY INNSBRUCK, Division of Genetic Epidemiology.
- 2008–2010 **Student Assistant**, MEDICAL UNIVERSITY INNSBRUCK, Division of Genetic Epidemiology.
- 2009 **Student Assistant**, UNIVERSITY INNSBRUCK, Database and Information Systems.
- 2007 **Summer Intern System Administration**, DATEF AG, Bozen.
- 2000–2002 **Technical Sales**, GIACOMUZZI SRL, Bozen.
- 1999–2000 **Software Developer**, PLANQUADRAT GMBH, Bozen.
- 1999 **Intern System Administration**, SIAG AG, Bozen.

### Awards

- 2015 Best Paper Award MIPRO2015

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## Articles

- 2017 in press Coassin, S., Erhart, G., **Weissensteiner, H.**, Guimaraes de Araujo, M. E., Lamina, C., Schönherr, S., Forer, L., Haun, M., Lee Losso, J., Köttgen, A., Uterman, G., Peters, A., Gieger, C., Strauch, K., Finkenstedt, A., Bale, R., Zoller, H., Paulweber, B., Eckardt, K.-U., Hüttenhofer, A., Huber, L., Kronenberg, F., "A novel but frequent variant in LPA KIV-2 is associated with a pronounced Lp(a) and cardiovascular risk reduction". In: *European Heart Journal*.
- 2016 Forer, L., Afgan, E., **Weissensteiner, H.**, Davidovic, D., Specht, G., Kronenberg, F., Schoenherr, S., "Cloudflow-enabling faster biomedical pipelines with MapReduce and Spark". In: *Scalable Computing: Practice and Experience* 17.2, pp. 103–114.
- Weissensteiner, H.**, Forer, L., Fuchsberger, C., Schöpf, B., Kloss-Brandstätter, A., Specht, G., Kronenberg, F., Schönherr, S., "mtDNA-Server: next-generation sequencing data analysis of human mitochondrial DNA in the cloud". In: *Nucleic acids research*, gkw247.
- Weissensteiner, H.**, Pacher, D., Kloss-Brandstätter, A., Forer, L., Specht, G., Bandelt, H.-J., Kronenberg, F., Salas, A., Schönherr, S., "HaploGrep 2: mitochondrial haplogroup classification in the era of high-throughput sequencing". In: *Nucleic acids research*, gkw233.
- 2015 Kehdy, F. S. G., Gouveia, M. H., Machado, M., Magalhães, W. C. S., Horimoto, A. R., Horta, B. L., Moreira, R. G., Leal, T. P., Scliar, M. O., Soares-Souza, G. B., Rodrigues-Soares, F., Araújo, G. S., Zamudio, R., Sant Anna, H. P., Santos, H. C., Duarte, N. E., Fiaccone, R. L., Figueiredo, C. a., Silva, T. M., Costa, G. N. O., Beleza, S., Berg, D. E., Cabrera, L., Debortoli, G., Duarte, D., Ghirotto, S., Gilman, R. H., Gonçalves, V. F., Marrero, A. R., Muniz, Y. C., **Weissensteiner, H.**, Yeager, M., Rodrigues, L. C., Barreto, M. L., Lima-Costa, M. F., Pereira, A. C., Rodrigues, M. R., Tarazona-Santos, E., "Origin and dynamics of admixture in Brazilians and its effect on the pattern of deleterious mutations". In: *Proceedings of the National Academy of Sciences* 112.28, pp. 8696–8701.
- Kloss-Brandstätter, A., **Weissensteiner, H.**, Erhart, G., Schäfer, G., Forer, L., Schönherr, S., Pacher, D., Seifarth, C., Stöckl, A., Fendt, L., Sottas, I., Klocker, H., Huck, C. W., Rasse, M., Kronenberg, F., Kloss, F. R., "Validation of next-generation sequencing of entire mitochondrial genomes and the diversity of mitochondrial DNA mutations in oral squamous cell carcinoma". In: *PloS one* 10.8, e0135643.
- Raschenberger, J., Kollerits, B., Titze, S., Koettgen, A. K., Baerthlein, B. B., Ekici, A. B., Forer, L., Sch, S., Schönherr, **Weissensteiner, H.**, Haun, M., Wanner, C., Eckardt, K.-U., Kronenberg, F., "Association of relative telomere length with cardiovascular disease in a large chronic kidney disease cohort: the GCKD study". In: *Atherosclerosis* 242.2, pp. 529–534.

- Raschenberger, J., Kollerits, B., Titze, S., Köttgen, A., Bärthlein, B., Ekici, A. B., Forer, L., Schönherr, S., **Weissensteiner, H.**, Haun, M., Wanner, C., Eckardt, K.-U., Kronenberg, F., "Do telomeres have a higher plasticity than thought? Results from the German Chronic Kidney Disease (GCKD) study as a high-risk population". In: *Experimental gerontology* 72, pp. 162–166.
- 2014 Lamina, C., Linsenmeyer, J., **Weissensteiner, H.**, Kollerits, B., Meisinger, C., Rantner, B., Stöckl, D., Stadler, M., Klein-Weigel, P., Peters, A., "Correlation between a positive family risk score and peripheral artery disease in one case-control and two population-based studies". In: *Atherosclerosis* 237.1, pp. 243–250.
- Summerer, M., Horst, J., Erhart, G., **Weissensteiner, H.**, Schönherr, S., Pacher, D., Forer, L., Horst, D., Manhart, A., Horst, B., Sanguansermsri, T., Kloss-Brandstätter, A., "Large-scale mitochondrial DNA analysis in Southeast Asia reveals evolutionary effects of cultural isolation in the multi-ethnic population of Myanmar". In: *BMC evolutionary biology* 14.1, p. 17.
- 2013 **Weissensteiner, H.**, Haun, M., Schönherr, S., Neuner, M., Forer, L., Specht, G., Kloss-Brandstätter, A., Kronenberg, F., Coassin, S., "SNPflow: a lightweight application for the processing, storing and automatic quality checking of genotyping assays". In: *PloS one* 8.3, e59508.
- 2012 Schönherr, S., Forer, L., **Weissensteiner, H.**, Kronenberg, F., Specht, G., Kloss-Brandstätter, A., "Cloudgene: A graphical execution platform for MapReduce programs on private and public clouds". In: *BMC bioinformatics* 13.1, p. 200.
- 2011 Kloss-Brandstätter, A., Pacher, D., Schönherr, S., **Weissensteiner, H.**, Binna, R., Specht, G., Kronenberg, F., "HaploGrep: a fast and reliable algorithm for automatic classification of mitochondrial DNA haplogroups". In: *Human mutation* 32.1, pp. 25–32.
- 2010 Forer, L., Schönherr, S., **Weissensteiner, H.**, Haider, F., Kluckner, T., Gieger, C., Wichmann, H.-E., Specht, G., Kronenberg, F., Kloss-Brandstätter, A., "CONAN: copy number variation analysis software for genome-wide association studies". In: *BMC bioinformatics* 11.1, p. 318.
- Weissensteiner, H.**, Schönherr, S., Specht, G., Kronenberg, F., Brandstätter, A., "eCOMPAGT integrates mtDNA: import, validation and export of mitochondrial DNA profiles for population genetics, tumour dynamics and genotype-phenotype association studies". In: *BMC bioinformatics* 11.1, p. 122.
- 2009 Schönherr, S., **Weissensteiner, H.**, Coassin, S., Specht, G., Kronenberg, F., Brandstätter, A., "eCOMPAGT—efficient combination and management of phenotypes and genotypes for genetic epidemiology". In: *BMC bioinformatics* 10.1, p. 139.

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## Book Chapter

- 2012 Forer, L., Schönherr, S., **Weissensteiner, H.**, Specht, G., Kronenberg, F., Kloss-Brandstätter, A., "Cloud Computing". In: *Computational Medicine*. Springer Vienna, pp. 27–36.

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## Conference Proceedings

- 2016 Schopf, B., Schafer, G., **Weissensteiner, H.**, Gnaiger, E., Klocker, H., "Mitochondrial function and mitochondrial heteroplasmy levels differ between benign and malignant prostate tissue." In: Androgens 2016, Endocrine Abstracts.
- 2015 Forer, L., Afgan, E., **Weissensteiner, H.**, Davidović, D., Specht, G., Kronenberg, F., Schönherr, S., "Cloudflow-A framework for mapreduce pipeline development in biomedical research". In: *Information and Communication Technology, Electronics and Microelectronics (MIPRO), 2015 38th International Convention on.* IEEE, pp. 172–177.
- 2014 Forer, L., Lipic, T., Schönherr, S., **Weissensteiner, H.**, Davidovic, D., Kronenberg, F., Afgan, E., "Delivering bioinformatics mapreduce applications in the cloud". In: *Information and Communication Technology, Electronics and Microelectronics (MIPRO), 2014 37th International Convention on.* IEEE, pp. 373–377.
- 2011 Schönherr, S., Forer, L., **Weissensteiner, H.**, Kronenberg, F., Specht, G., Kloss-Brandstätter, A., "A feedback guided interface for elastic computing." In: *Grundlagen von Datenbanken*, pp. 109–114.

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## Selected Presentations

- 2016 Grainau (GER) - Sixth Workshop of Genetic Epidemiology - Presentation + Session Chair
- 2015 Zagreb (CRO) - Bioinformatics Methods in Genomics - Workshop and Lectures
- 2014 Doha (QA) - Workshop: From Bioinformatics to Therapeutics
- 2012 Long Beach (USA) - Poster presentation at the Bioinformatics Open Source Conference (BOSC)
- 2011 Amsterdam (NL) - Poster presentation at the European Society for Human Genetics Conference (ESHG)
- 2010 Cambridge (UK) - Poster presentation at the International Symposium on Integrative Bioinformatics (IMBIO)

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## Peer-Reviews for Journals

PLOS ONE - Public Library of Science (PLOS)  
Human Mutation- Wiley Online Library  
Bioinformatics - Oxford Academic  
European Journal of Human Genetics - Nature  
Scientific Reports - Nature

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## Member of Consortium

- GCKD German Chronic Kidney Disease Study Investigator - 12 publications (as of 15.03.2017)
- MitoDB Max Planck Institute for Science of Human History