

CURRICULUM VITAE  
MMAG. DR. GÜNTHER EIBL

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PERSONAL DETAILS

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Name	Günther Eibl
Academic Degree	MMag. Dr.
Contact Details	Salzburg University of Applied Sciences Urstein Sued 1, 5412 Puch/Salzburg, Austria E-Mail: guenther.eibl@fh-salzburg.ac.at Phone: +43 (0)50-2211-1327 Fax: +43 (0)50-2211-1349

EDUCATION

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Nov. 2004	Master of Science Degree in Physics, University of Innsbruck MSc Thesis on "Particle-in-cell (PIC) Simulation of the Plasma Sheath and Presheath Including Collisions and Secondary Electrons" Supervisor: Univ.-Prof. Dr. Siegbert Kuhn
Oct. 2002	Doctoral degree in Mathematics, University of Innsbruck PhD Thesis on "Boosting Regarding Multiclass Problems and Probability Estimations" Supervisor: Univ.-Prof. Dr. Karl-Peter Pfeiffer
Sep. 1997	Master of Science Degree in Mathematics, University of Innsbruck MSc Thesis on "Numerical Methods for the Calculation of Solution Branches of Nonlinear Systems of Equations" Supervisor: Univ.-Prof. Dr. Alexander Ostermann

## SCIENTIFIC AND PROFESSIONAL CAREER

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since Dec. 2015	Professor (FH), University of Applied Sciences of Salzburg
since Jan. 2013	Research Associate, Josef Ressel Center for User-Centric Smart Grid Privacy, Security and Control, Puch/Salzburg
since Jan. 2013	Teacher, University of Applied Sciences of Salzburg
March 2010 - Dec. 2012	Engineer, Andata GmbH & KO, Hallein: Data Mining and Control for intelligent traffic control
Sep. 2009 - March 2010	Software Developer, Nürnberger Insurance, Salzburg
Oct. 2008 - May 2009	Engineer, Sigmatek, Lamprechtshausen: Calculation of robot kinematics, coupling of axes, CNC-programming
Sep. 2007 - Sep. 2008	Researcher, Austrian Institute of Technology, Vienna: video-based motion estimation
May 2006 - Sep. 2007	Statistician, Biocrates Life Sciences, Innsbruck: medical statistics and validation of measurement methods
Oct. 2004 - Feb. 2006	PostDoc, Institute of Theoretical Physics, Innsbruck: improving fluid simulations of a fusion reactor
Nov. 1998 - Oct. 2004	University Assistant, Department of Biostatistics, Innsbruck: machine learning, statistical consulting

## EXPERIENCE IN RESEARCH PROJECTS

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Jan. 2013–Dec. 2017	Josef Ressel Center for User-Centric Smart Grid Privacy, Security and Control: Leader Core team privacy and security
March 2010–Apr. 2011	“Subsidiary Traffic Control Network (sTC-net)”
Sep. 2007–Sep. 2008	“Advanced Unsupervised Monitoring and Visualization of Complex Scenarios (AUTOVISTA)”
Oct. 2004–Feb. 2006	“Integrated Tokamak Modelling and Simulation (ITMS)”

## TEACHING

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- “Applied Mathematics 1”, Salzburg University of Applied Sciences (since 2016)
- “Applied Statistics”, Salzburg University of Applied Sciences (since 2016)
- “Data Mining”, Salzburg University of Applied Sciences (since 2014)
- “Selected Topics of Mathematics” Exercises, Salzburg University of Applied Sciences (2013-2015)
- “Summer school Mathematics”, Salzburg University of Applied Sciences (since 2013)
- “Exercises Media technologies”, Salzburg University of Applied Sciences (2013-2015)
- “Boosting”, University of Innsbruck (2002)
- “Pattern Recognition”, University of Innsbruck (2000-2001)
- “Statistics with Matlab and R”, University of Innsbruck (2001)
- “Statistics lab” for medical students, University of Innsbruck (1999-2002)

## JOURNAL PUBLICATIONS

- [1] A. Unterweger, F. Knirsch, G. Eibl, and D. Engel. Privacy-preserving load profile matching for tariff decisions in smart grids. *EURASIP Journal on Information Security*, 2016(1):21, 2016.
- [2] F. Knirsch, G. Eibl, and D. Engel. Error-resilient Masking Approaches for Privacy Preserving Data Aggregation. *IEEE Transactions on Smart Grid*, to appear., 2016.
- [3] G. Eibl and D. Engel. Influence of Data Granularity on Smart Meter Privacy. *IEEE Transactions on Smart Grid*, 6(2):930–939, 2015.
- [4] C. Neureiter, G. Eibl, D. Engel, S. Schlegel, and M. Uslar. A concept for engineering smart grid security requirements based on SGAM models. *Computer Science - Research and Development*, pages 1–7, 2014.
- [5] G. Eibl, K. Bernardo, T. Koal, S. Ramsay, K. Weinberger, and A. Graber. Isotope correction of mass spectrometry profiles. *Rapid Communications in Mass Spectrometry*, 22.14:2248–2252, 2008.
- [6] G. Eibl and K. Pfeiffer. Multiclass-boosting for weak classifiers. *Journal of Machine Learning Research*, 6:189–210, 2005.

## REFEREED CONFERENCE PROCEEDINGS

- [7] G. Eibl, C. Ferner, T. Hildebrandt, F. Stertz, S. Burkhart, S. Rinderle-Ma, and D. Engel. Exploration of the Potential of Process Mining for Intrusion Detection in Smart Metering. In *3rd International Conference on Information Systems Security and Privacy*, page to appear, 2017.
- [8] K. Böhmer, F. Stertz, T. Hildebrandt, S. Rinderle-Ma, G. Eibl, C. Ferner, S. Burkhart, and D. Engel. Application and Testing of Business Processes in the Energy Domain. In *Fachtagung Datenbanksysteme für Business, Technologie und Web (BTW)*, page to appear, 2017.
- [9] G. Eibl and D. Engel. Differential privacy for real smart metering data. In *Computer Science - Research and Development*, pages 1–10. Springer Berlin Heidelberg, 2016.
- [10] G. Eibl, D. Engel, and C. Neureiter. Privacy-Relevant Smart Metering Use Cases. In *Proc. International Conference on Industrial Technology (ICIT)*, pages 1387–1392. IEEE, 2015.
- [11] G. Eibl and D. Engel. Influence of Data Granularity on Nonintrusive Appliance Load Monitoring. In *Proceedings of the Second ACM Workshop on Information Hiding and Multimedia Security (IH&MMSec '14)*, pages 147–151, Salzburg, Austria, 2014. ACM.
- [12] C. Neureiter, G. Eibl, A. Veichtlbauer, and D. Engel. Towards a Framework for Engineering Smart-Grid-Specific Privacy Requirements. In *Proc. IEEE IECON 2013, Special Session on Energy Informatics*, pages 4803–4808, Vienna, Austria, nov 2013. IEEE.
- [13] G. Eibl and N. Brändle. Evaluation of clustering methods for finding dominant optical flow fields in crowded scenes. In *19th International Conference on Pattern Recognition*, 2008.
- [14] G. Eibl and K. Pfeiffer. How to make adaboost.m1 work for weak base classifiers by changing only one line of the code. In *Machine Learning: ECML 2002.*, pages 72–83. Springer, 2002.
- [15] G. Eibl and K. Pfeiffer. Analysis of the performance of adaboost.m2 for the simulated digit-recognition-example. In *Machine Learning: ECML 2001*, pages 109–120. Springer, 2001.

## COAUTHORSHIPS IN MEDICAL PAPERS

- [16] G. Neumayr, R. Pfister, G. Mitterbauer, G. Eibl, and H. Hoertnagl. Effect of competitive marathon cycling on plasma n-terminal pro-brain natriuretic peptide and cardiac troponin t in healthy recreational cyclists. *American J. of Cardiology*, 96(5):732–735, 2005.

- [17] B. Moser, F. Bodrogi, G. E. M. Lechner, J. Rieder, and P. Lirk. Mass spectrometric profile of exhaled breath-field study by ptr-ms. *Respiratory Physiology and Neurobiology*, 145(2-3):295–300, 2005.
- [18] R. Biedermann, A. Tonin, M. Krismer, F. Rachbauer, G. E. G, and B. Stöckl. Reducing the risk of dislocation after total hip arthroplasty: the effect of orientation of the acetabular component. *Journal of Bone & Joint Surgery*, 87(6):762–9, 2005.
- [19] R. Biedermann, A. Tonin, M. Krismer, F. Rachbauer, G. Eibl, and B. Stockl. Reducing the risk of dislocation after total hip arthroplasty: the effect of orientation of the acetabular component. *Journal of Bone & Joint Surgery*, 87(6):762–769, June 2005.
- [20] B. Kircher, D. Niederwieser, A. Gachter, K. Latzer, G. Eibl, G. Gastl, and D. Nachbaur. No predictive value of cytotoxic or helper t-cell precursor frequencies for outcome when analyzed from the graft after stem cell transplantation. *Annals of Hematology*, May 2004.
- [21] B. Kircher, C. E. Hack, A. M. Dickinson, X. N. Wang, M. Oudshoorn, A. Sachs, A. Wolbink, D. Niederwieser, G. Eibl, H. C. van Houwelingen, and E. Goulmy. Towards functional transplant donor matching by measurement of granzyme a and granzyme b production levels. *Journal of Immunological Methods*, 293:51–59, 2004.
- [22] F. Dohmas, A. Lochy, G. Eibl, and M. Delazen. Adding colour to multiplication: Rehabilitation of arithmetic fact retrieval in a case of traumatic brain injury. *Neuropsychological Rehabilitation*, 14(3):303–328, 2004.
- [23] G. Neumayr, H. Hoertnagl, R. Pfister, A. Koller, G. Eibl, and E. Raas. Physical and physiological factors associated with success in professional alpine skiing. *International Journal of Sports Medicine*, 24(8):571–575, November 2003.
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- [26] E. Trinkka, G. Walser, I. Unterberger, G. Luef, T. Benke, L. Bartha, G. Eibl, M. Ortler, and G. Bauer. Asymmetric termination of secondarily generalized tonic-clonic seizures in temporal lobe epilepsy. *Neurology*, 59(8):1254–1256, 2002.
- [27] G. Spizzo, P. Obrist, C. Ensinger, I. Theurl, M. Dunser, and A. R. et al. Prognostic significance of ep-cam and her-2/neu overexpression in invasive breast cancer. *International Journal of Cancer*, 98:883–888, 2002.
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Salzburg, February 15, 2017