

Curriculum Vitae



Florian Frommlet

Born on the 11th February 1972 in Bad Aussee

School education:

09/1978 – 06/1982 Volksschule in Bad Ischl
09/1982 – 06/1990 Gymnasium in Bad Ischl
Matura: 11th June 1990 (with excellent success)

University:

10/1990 Student of Technical Mathematics at the TU Vienna
10/1992 1. Diploma (with excellent success)
06/1995 2. Diploma (with excellent success)

Alternative Service:

10/1995 – 08/1996 Alternative Service in Vienna

PhD:

10/1996 PhD Student at the TU Berlin
04/1997 – 07/1998 Scientific Associate at the TU Berlin
08/1998 – 07/1999 TMR fellowship at the TU Berlin
09/1999 – 08/2000 TMR fellowship at the University of Granada, Spain
12/2000 Conferral of a doctorate at the TU Berlin

Post Doc:

01/2002 – 06/2004 University Assistant at the Department of Medical Statistics at the University of Vienna
07/2004 – 11/2010 University Assistant at the Department of Statistics and Decision Support at the University of Vienna
01/2007 – 05/2007 Visiting Assistant Professor at Purdue University, USA
12/2010 – 08/2014 Senior PostDoc and Principle Investigator of WWTF grant MA09-007a
10/2012 – 03/2013 Professor (W2) at LMU Munich, Germany
Since 08/2013 University Assistant at Section of Medical Statistics, Medical University Vienna

Habilitation in Statistics:

01/2012 Department of Statistics, University Vienna:
Multiple Testing and Model Selection Issues in Genetics and Molecular Biology

Languages: English, Spanish, some Polish

Programming: Among others: Matlab, SAS, SPSS, R, C

Book:

Phenotypes and Genotypes, The Search for Influential Genes

Series: Computational Biology, Vol. 18

Frommlet Florian, Bogdan Małgorzata, Ramsey David, to appear in 2016

Working Papers

B. Bodenstorfer, E. Dolejsi, M. Bogdan, F. Frommlet, *MOSGWA: A software package using model selection algorithms for genome-wide association studies*

M. Bogdan, F. Frommlet, P. Szulc, H. Tang, *A model selection approach for genome wide association studies in admixed populations*

A. Gola, M. Hagmann, M. Bogdan, F. Frommlet, *Application of memetic algorithms for the approximate Bayesian analysis of Genome Wide Association Studies*

Submitted Papers

R. Ristl, F. Frommlet, M. Posch, *A multiple testing procedure for three primary endpoints*

F.Frommlet, G.Nuel: *An adaptive Ridge procedure for L0 regularization*

Publications

Refereed journals:

- E. Dolejsi, B. Bodenstorfer, F. Frommlet, *Analyzing Genome-Wide Association Studies with an FDR Controlling Modification of the Bayesian Information Criterion*, 2014, PLoS ONE 9(7): e103322. doi:10.1371/journal.pone.0103322
- A.Gola, M. Bogdan, F. Frommlet, *EA-MOSGWA – a tool for identifying associated SNPs in Genome Wide Association Studies*, 2013, Theoretical and Applied Informatics 3, 4, 251-262
- F. Frommlet, M. Bogdan, *Some optimality properties of FDR controlling rules under sparsity*, 2013, Electronic Journal of Statistics, Vol. 7, No. 0, 1328-1368
- F. Frommlet, I. Ljubic, H. Arnardottir, M. Bogdan, *QTL Mapping Using a Memetic Algorithm with modifications of BIC as fitness function*, 2012, Statistical Applications in Genetics and Molecular Biology, Vol. 11(4), Article 2.

- F. Frommlet, F. Ruhaltinger, P. Twarog, M. Bogdan, *Modified versions of Bayesian Information Criterion for genome-wide association studies*, 2012, *CSDA*, 56, 1038 - 1051
- M. Bogdan, A. Chakrabarti, F. Frommlet, J.K. Ghosh. *Asymptotic Bayes-Optimality under sparsity of some multiple testing procedures*, 2011, *Annals of Statistics*, 39 (3), 1551-1579.
- F. Frommlet, *Tag SNP selection based on clustering according to dominant sets found using replicator dynamics*, 2010, *Adv Data Anal Classification* 4:65–83
- F. Frommlet, *Some properties of a recently introduced approach to ordinal regression*, 2010, *Austr Jour Statist* 39 (3), 182 - 202
- Immanuel M. Bomze, Florian Frommlet, Marco Locatelli, *Gap, cosum, and product properties of the θ' bound on the clique number*, 2010, *Optimization*, 59 (7)
- Immanuel M. Bomze, Florian Frommlet, Marco Locatelli, *Copositivity cuts for improving SDP bounds on the clique number*, 2010, *Math. Prog.*, 12,. 13-32
- M. Bogdan, F. Frommlet, P. Biecek, R. Cheng, J.K. Ghosh and R.W.Doerge, *Extending the Modified Bayesian Information Criterion (mBIC) to dense markers and multiple interval mapping*, 2008, *Biometrics*. 64, 1162 – 1169,
- Immanuel M. Bomze, Florian Frommlet, Martin Rubey, *Improving SDP bounds for minimizing quadratic functions over the l_1 -ball*, *Optimization Letters*, 2007, Vol 1, (1), 49-59
- Florian Frommlet, Malgorzata Bogdan, Andreas Futschik, *Power Analysis of Database Search using Multiple Scoring Matrices*, 2006, *Comp. Stat & Data Analysis*, Vol 51, (3): 1656-1663
- Andreas Baierl, Malgorzata Bogdan, Florian Frommlet, Andreas Futschik, *On Locating Multiple Interacting Quantitative Trait Loci in Intercross Designs*, *Genetics*. 2006 Jul;173(3):1693-703.
- Florian Frommlet, Andreas Futschik, *On the Dependence Structure of Sequence Alignment Scores Calculated with Multiple Scoring Matrices*, *Statistical Applications in Genetics and Molecular Biology*, 2004, Vol. 3: No. 1, Article 24.
- Florian Frommlet, Andreas Futschik, Malgorzata Bogdan, *On the Significance of Sequence Alignments when using Multiple Scoring Matrices*, *Bioinformatics*, 2004; 20 (6): 881-887

Proceedings and technical reports:

- F. Frommlet, *Modifications of BIC for data mining under sparsity*, 2012, Operations Research Proceedings 2011, 243 - 248
- F. Frommlet, M. Bogdan, A. Chakrabarti, *Asymptotic Bayes optimality under sparsity of selection rules for general priors*, 2010, Technical report [2010-07], arXiv:1005.4753
- M. Bogdan, A. Chakrabarti, F. Frommlet, J.K. Ghosh. *Bayes oracle and asymptotic optimality of multiple testing procedures under sparsity*, 2010, Technical report [ISDS 2010-06], arXiv:1002.3501
- F. Frommlet, *Critical Remarks on a Novel Approach to Ordinal Regression without Latent Variables*, 2008, Technical Report [ISDS 2008-06]
- J. Szyda, P. Biecek, F. Frommlet, J. K. Ghosh and M. Bogdan, *Analysis of genetic background of quantitative traits related to alcoholism by mixed inheritance and oligogenic models*, Technical Report, Wroclaw University of Technology, 2005.
- Florian Frommlet, Andreas Futschik, Malgorzata Bogdan, *Sequence Alignments when using Multiple Scoring Matrices*, Proceedings GCB03, 41 - 46

Cooperation with Physicians:

- Pereira, I., Resch, H., Schwartzans, F., Wu, J., Holzer, S., Kiss, B., Frommlet, F., Fischer, G., Vass, C. *Multivariate model of the intersubject variability of the retinal nerve fiber layer thickness in healthy subjects*, 2015, Investigative Ophthalmology & Visual Science, Accepted
- Kanz F., Fitzl C., Vlcek A., Frommlet F., *Sex estimation using the femur of Austrians born between 1822 and 1949*, 2015, Anthropologischer Anzeiger,72(1): 117-127.
- Hischenhuber B. Frommlet F., Schreiner W., Knapp B., *MHC: Characterization of major histocompatibility α -helices – an information criterion approach*, 2012, Computer Physics Communications, 183 (7), 1481–1490
- Lion T, Watzinger F, Preuner S, Kreyenberg H, Tilanus M, de Weger R, van Loon J, de Vries L, Cavé H, Acquaviva C, Lawler M, Crampe M, Serra A, Saglio B, Colnaghi F, Biondi A, van Dongen JJ, van der Burg M, Gonzalez M, Alcoceba M, Barbany G, Hermanson M, Roosnek E, Steward C, Harvey J, Frommlet F, Bader P. *The EuroChimerism concept for a standardized approach to chimerism analysis after allogeneic stem cell transplantation*. Leukemia. 2012, Aug;26(8):1821-8.
- X. Yao, F. Frommlet, L. Zhou¹, F. Zu¹ H.M. Wang, Z.T. Yan, W.L. Luo, J. Hong, X.L. Wang, N.F. Li, *The prevalence of hypertension, obesity and dyslipidemia in individuals of over 30 years of age belonging to minorities from the pasture area of Xinjiang*, 2010, BMC Public Health, 24;10:91.
- Preuner S, Denk D, Frommlet F, Nesslerboeck M, Lion T. *Quantitative monitoring of cell clones carrying point mutations in the BCR-ABL tyrosine kinase domain by ligation-dependent polymerase chain reaction (LD-PCR)*. Leukemia. 2008; 22, 1956 - 1961

- Matthes-Martin S, Pötschger U, Bergmann K, Frommlet F, Brannath W, Bauer P, Klingebiel T. *Risk-adjusted outcome measurement in pediatric allogeneic stem cell transplantation*. Biol Blood Marrow Transplant. 2008 Mar;14(3):335-43.
- Kazemi-Shirazi L, Veloso MP, Frommlet F, Steindl-Munda P, Wrba F, Zehetmayer S, Marsik C, Ferenci P. *Differentiation of nonalcoholic from alcoholic steatohepatitis: are routine laboratory markers useful?* Wien Klin Wochenschr. 2008 Jan;120(1-2):25-30.
- Pagitz M, Frommlet F, Schwendenwein I. *Evaluation of biological variance of cystatin C in comparison with other endogenous markers of glomerular filtration rate in healthy dogs*. J Vet Intern Med. 2007 Sep-Oct;21(5):936-42.
- Thurnher D, Erovcic BM, Frommlet F, Brannath W, Ehrenberger K, Jansen B, Selzer E, Grasl MC. *Challenging a dogma - surgery yields superior long-term results for T1a squamous cell carcinoma of the glottic larynx compared to radiotherapy*. Eur J Surg Oncol. 2007 Aug 7;
- Scope A, Schwendenwein I, Frommlet F. *Biological variation, individuality and critical differences of eight biochemical blood constituents in budgerigars (Melopsittacus undulatus)*. Vet Rec. 2006 Dec 16;159(25):839-43.
- Stadtbäumer K, Frommlet F, Nell B. *Effects of mydriatics on intraocular pressure and pupil size in the normal feline eye*. Vet Ophthalmol. 2006 Jul;9(4):233-7.
- Falkner CI, Leitich H, Frommlet F, Bauer P, Binder S. *The end of submacular surgery for age-related macular degeneration? A meta-analysis*. Graefes Arch Clin Exp Ophthalmol. 2006 May; 4; 490-501
- Falkner, CI, Binder S, Leitich H, Frommlet F, Bauer P, Removal of Subfoveal Choroidal Neovascularization versus Macular Translocation for Age-Related Macular Degeneration: A Meta-Analysis. Invest Ophth Vis Sci 46, 2005
- Kroiss R, Winkler V, Bikas D, Fleischmann E, Mainau C, Frommlet F, Muhr D, Fuerhauser C, Tea M, Bittner B, Kubista E, Oefner PJ, Bauer P, Wagner TM; Austrian Hereditary Breast and Ovarian Cancer Group. *Younger birth cohort correlates with higher breast and ovarian cancer risk in European BRCA1 mutation carriers*. Hum Mutat. 2005 Dec;26(6):583-9.
- Scope A, Schwendenwein I, Frommlet F. *Influence of outlying values and variations between sampling days on reference ranges for clinical chemistry in budgerigars (Melopsittacus undulatus)*. Vet Rec. 2005 Mar 5;156(10):310-4.
- Scope A, Frommlet F, Schwendenwein I. *Circadian and seasonal variability and influence of sex and race on eight clinical chemistry parameters in budgerigars (Melopsittacus undulatus, Shaw 1805)*. Res Vet Sci. 2005 Feb;78(1):85-91.
- Matthes-Martin S, Lion T, Haas OA, Frommlet F, Daxberger H, König M, Printz D, Scharner D, Eichstill C, Peters C, Lawitschka A, Gadner H, Fritsch G., *Lineage-specific chimaerism after stem cell transplantation in children following reduced intensity conditioning: potential predictive value of NK cell chimaerism for late graft rejection*. Leukemia. 2003 Oct;17(10):1934-1942.
- Erovcic BM, Pammer J, Hollemann D, Woegerbauer M, Geleff S, Fischer MB, Burian M, Frommlet F, Neuchrist C. *Motility-related protein-1/CD9 expression in head and neck squamous cell carcinoma*. Head Neck. 2003 Oct;25(10):848-57.

- Gruber R, Karreth F, Frommlet F, Fischer MB, Watzek G., *Platelets are mitogenic for periosteum-derived cells*, J Orthop Res. 2003 Sep;21(5):941-8.
- Berer A, Jager E, Sagaster V, Streubel B, Wimazal F, Sperr WR, Welterman A, Schwarzingler I, Frommlet F, Haas OA, Valent P, Lechner K, Geissler K, Ohler L., *Circulating myeloid colony-forming cells predict survival in myelodysplastic syndromes*, Ann Hematol. 2003 May;82(5):271-7. Epub 2003 Mar 22.
- Matthes-Martin S, Lion T, Aberle SW, Fritsch G, Lawitschka A, Bittner B, Frommlet F, Gadner H, Peters C. *Pre-emptive treatment of CMV DNAemia in paediatric stem cell transplantation: the impact of recipient and donor CMV serostatus on the incidence of CMV disease and CMV-related mortality*, Bone Marrow Transplant. 2003 May;31(9):803-8.
- S Matthes-Martin, T Lion, O A Haas, F Frommlet, H Daxberger, M König, D Printz, D Scharner, C Eichstill, C Peters, A Lawitschka, H Gadner, G Fritsch *Lineage-specific chimaerism after stem cell transplantation in children following reduced intensity conditioning: potential predictive value of NK cell chimaerism for late graft rejection*. Leukemia. 2003 Oct ;17 (10):1934-42 14513041

Older Publications

- Frommlet F, Weinmuller EB, *On asymptotic error expansions for singular boundary value problems*; MATH MOD METH APPL S 11 (1): 71-85 FEB 2001
- Castella F, Erdos L, Frommlet F, Markovich P, *Fokker-Planck equations as scaling limits of reversible quantum systems*, J STAT PHYS 100 (3-4): 543-601 AUG 2000.
- Frommlet F, Markowich PA, Ringhofer C, *A Wignerfunction approach to phonon scattering*, VLSI DES 9 (4): 339-350 1999
- DISSERTATION: Frommlet F, Zeitirreversibilität in Quantenmechanischen Systemen (Time Irreversibility in Quantum Mechanical Systems). *Doctoral Dissertation accepted by: Technical University of Berlin , Department of Mathematics/Computer Science, 2000-12-11*
- DIPLOMARBEIT (Published as technical report): F. Frommlet, E. B. Weinmüller, *Asymptotische Fehlerentwicklungen für singuläre Randwertaufgaben*, Technical Report No. 118, Department of Applied Mathematics and Numerical Analysis, Vienna University of Technology, Vienna, Austria 1995.

Projects

- 2015 – 2016: COST Action IC1408, Member of Management Committee for Austria

Title: Computationally-intensive methods for the robust analysis of non - standard data
- 2012 - 2013: Key Investigator in project together with Austrian Ministry of Health (15.000 Euro from a total volume of 50.000 Euro),

Title: GENOVA, a tool to evaluate the importance of SNPs
- 2010 – 2014: Principal Investigator WWTF grant “Mathematik und ...” (total volume 372.000 Euro)

Title: Optimal selection procedures in genome-wide association studies
- 2009 – 2010: Principal Investigator ÖAD Projekt PL 02/2009, (total volume ca. 10.000 Euro)

Title: Statistical issues in data mining – optimal rules for high dimensional model selection and multiple testing.
- 2003 – 2005: Statistical advisor of the project “Eurochimerism Concerted Action” (not involved in funding)

Work as Referee for journals

- Statistical Applications in Genetics and Molecular Biology
- Statistics in Medicine
- Biometrical Journal
- Statistics
- Statistics and Computing
- Biostatistics
- Journal of Computational Statistics and Data Analysis
- Journal of Computational and Graphical Statistics
- Journal of Multivariate Analysis
- Probability and Mathematical Statistics
- Sankhya A
- Bioinformatics
- BMC Bioinformatics
- BMC Medical Genomics
- Genetics
- Heredity
- Scientific Reports
- Artificial Intelligence in Medicine
- Psychology Science
- Journal of Mathematics Research
- Austrian Journal of Statistics
- Journal of Global Optimization
- SIAM Journal on Optimization
- Optimization Letters
- Computational Intelligence

Scientific activities

- Organization of an Invited Session for CMStatistics 2015, London
- External Reviewer for Research Foundation Flanders (FWO)
- Scientific Advisory Board member of EMINENS project
- Organization of session on Bioinformatics for OR 2015, Vienna
- Since April 2014 Editorial Board Member of Scientific Reports
- Organization of an Invited Session for ERCIM 2014, Pisa
- Organization of an Invited Session at the IBC 2014 in Florence
- Organization of session for ERCIM 2012, Oviedo
- Organization of session on Bioinformatics for OR 2011, Zurich
- 2008 - 2012: Board member of the Austrian society of OR (ÖGOR – Vorstandsmittglied)
- Reviewer for ÖAD
- Reviewer for ÖGOR prize 2010

Coferences and talks:

- Frommlet F. (2015), An adaptive ridge procedure for L0 regularization, Eighth International Workshop on Simulation, Vienna, December 12
- Frommlet F. (2015), An adaptive ridge procedure for L0 regularization, Eighth International Workshop on Simulation, Vienna, September 23
- Frommlet F. (2015), MOSGWA, a model selection based software environment for GWAS analysis, Statistical Modeling of Cancer Genetic Predisposition workshop, COST Action no. BM1206, Vienna, March 3
- Frommlet F., Bodenstorfer, B., Bogdan M. (2014), MOSGWA, a new software tool for model selection in GWAS, invited talk, Pisa, ERCIM 2014, December 7
- Frommlet F. (2014) MOSGWA, a model selection based software environment for GWAS analysis and its potential extensions, invited talk, Bertinoro Computational Biology 2014, October 2
- Frommlet F., Gola A., Bogdan M. (2014) Using Memetic Algorithms for Bayesian Analysis of Genome-wide Association Studies, IBC, Florence, Italy, July 8
- Frommlet F., Gola A. (2013) Using Memetic Algorithms for Bayesian Analysis of Genome-wide Association Studies, invited talk at ICSA, Hongkong, China, December 21

- Frommlet F. (2013) Model Selection Procedures for Genome Wide Association Studies, invited talk at Statistiktage, Vienna, October 24
- Frommlet F. (2013) Model Selection Procedures for Genome Wide Association Studies, invited talk at Biometrics Systmod seminar, Liege, Belgium, May 17
- Frommlet F. (2013) Model Selection Procedures for Genome Wide Association Studies, invited talk at Biometrics workshop, Stanford, USA, April 11
- Frommlet F. (2013) FDR controlling modifications of BIC for model selection in high dimension, Seminary Decartes University, Paris, France, March 21
- Frommlet F. (2012) Model selection approaches to GWAS analysis, invited talk at ERCIM 12, Oviedo, Spain, December 1- 3
- Frommlet F. (2012) FDR controlling modifications of BIC for model selection in high dimension, Berufungsvortrag W2 Professur, November 7, Munich, Germany
- Frommlet F. (2012) Optimal model selection procedures under sparsity with applications in genetics, IBC, Kobe, Japan, August 28
- Frommlet F. (2012) Optimal model selection procedures under sparsity with applications in genetics, Invited talk, JAIST, Kanazawa, Japan, August 20
- Frommlet F. (2012) MOSGWA, Model Selection for Genome Wide Association, Invited talk, TU Wroclaw, Poland, March 22
- Frommlet F. (2011) Modifications of BIC for model selection under sparsity, Habilitationskolloquium, Vienna, November 16
- Frommlet F. (2011) Modifications of BIC for model selection under sparsity: Theory and applications in genetics, Invited talk, ETH Zürich, Switzerland, November 11
- Frommlet F. (2011) Modifications of BIC for data mining under sparsity, OR 2011, Zürich, Switzerland, August 30 - September 2
- Frommlet F., Ruhaltinger F., Bogdan M. (2011) Model Selection vs. Multiple Testing in Genome Wide Association Studies, JSM, Miami, USA, July 30-Aug. 4
- Frommlet F. Modifikationen des BIC zur Modellselektion im Falle von hochdimensionalen Daten mit Anwendung in genomweiten Assoziationsstudien, Berufungsvortrag W2 Professur, June 2011, Düsseldorf, Germany
- Frommlet F. (2011) Analyse von hochdimensionalen Daten im Falle von Sparsity in der Bioinformatik, Invited talk at Predictive Analytics Conference, Vienna, Austria, June 7. - 8.
- Frommlet F., Ruhaltinger F., Bogdan M. (2011) Bayes optimal selection rules under sparsity with applications in GWAS, MASAMB, Vienna, Austria, April 11. - 12.
- Frommlet F., Ruhaltinger F., Bogdan M. (2010) A model selection approach to genome wide association studies, Invited talk at COMPUTING & STATISTICS (ERCIM'10), University of London, UK, December 10. - 12.

- Frommlet F., Ruhaltinger F., Bogdan M. (2010) A model selection approach to GWAS, Invited talk at the Stochastic Seminary, Torun University, Poland, November 7.
- Frommlet F., Twarog P., Bogdan M. (2010) Modifications of BIC: Asymptotic optimality properties under sparsity and applications in genome wide association studies, COMPSTAT 2010, Paris, August 22. – 27.
- Frommlet F., (2010) Multiple Testing vs. Model Selection in applications of Molecular Biology, Wittgenstein Recess, Gösing, August 4. - 6.
- Bogdan M., Chakrabarti C., Frommlet F., Ghosh J.K., (2010) Bayes oracle and asymptotic optimality of multiple testing procedures under sparsity, SUSTAIN workshop: Sparse structures: statistical theory and practice, Bristol, UK, June 16. -18.
- Bogdan M., Chakrabarti C., Frommlet F., Ghosh J.K., (2010) Asymptotic optimality properties of multiple testing and model selection procedures under sparsity, Invited talk at University of Limerick, May 6
- Bogdan M., Chakrabarti C., Frommlet F., Ghosh J.K., (2010) Bayes oracle and asymptotic optimality of multiple testing procedures under sparsity, Invited talk at IFAS Johannes Kepler University Linz, April 22
- Frommlet, F. (2009), Tag SNP selection based on clustering with dominant sets and the replicator dynamic, ROES - Seminar, Linz, September 13 – 17
- Frommlet, F. (2008), Tag SNP selection based on clustering with dominant sets and the replicator dynamic, Human Genome Variation, Toronto, October 15 – 17
- Frommlet, F. (2008) Tag SNP selection based on clustering with dominant sets and the replicator dynamics, Invited Talk at University of Limerick, September 2008
- Bomze, I.M., Frommlet, F., Locatelli, M., (2007) The first cut is the cheapest. Improving SDP bounds for the clique number via copositivity. Optimization 2007, Porto, July 22 - 25
- Bomze, I.M., Frommlet, F., Locatelli, M., (2006) Improving SDP bounds for maximum clique by adding linear cuts. Euro XXI, 21st European Conference on Operational Research, Reykjavik, 2-5 July 2006
- Frommlet, F., Bogdan, M., Cheng, R., Ghosh, J. K., Doerge, R. W. (2006) A Modification of the BIC for QTL Detection in the Context of Dense Markers, Wien 3-10 October 2006
- Frommlet, F., Futschik, A. (2005) On the Dependence of Sequence Alignment Scores calculated with Different Scoring Matrices. 3rd World Conference on Computational Statistics, Limassol, 28-31 October 2005
- Frommlet, F., Futschik, A. (2005) On the Dependence of Sequence Alignment Scores calculated with Different Scoring Matrices. Workshop on Applied Optimization, Dresden, 7-8 October 2005

- Frommlet, F., (2005) Statistical analysis of Sensitivity/Quantifiability testing with EU-Chimerism markers. Eurochimerism Meeting, Vienna, 10-12 March 2005
- Frommlet, F., (2004) Study design for the last phase of the project "Eurochimerism Concerted Action". Eurochimerism Meeting, Turin, 27-29 October 2004
- Frommlet, F., Futschik, A., Bogdan, M. (2004) Sequence Alignment with Multiple Scoring Matrices. Talk at Institute for Genomics and Bioinformatics, TU Graz. September 2004
- Frommlet, F., Futschik, A., Bogdan, M. (2003) Sequence Alignment with Multiple Scoring Matrices. German Conference on Bioinformatics, München, 12-14 October 2003
- Frommlet F, Markowich PA, Ringhofer C, (1998) A Wignerfunction approach to phonon scattering. Conference on Applied and Industrial Mathematics, Venice 1998,
- Frommlet F, Markowich PA, Ringhofer C, (1998) A Wignerfunction approach to phonon scattering. 1st TMR-meeting jointly with the First European symposium on applied kinetic theory, Toulouse, 4-7 May 1998
- Frommlet F, Markowich PA, Ringhofer C, (1997) A Wignerfunction approach to phonon scattering. International Workshop on Quantum Kinetic Theory , Breckenridge, 4-13 August 1997

Teaching

In Austria:

- Statistical Genetics and Biometrics: Lecture + exercise, 2 hours, WS 14, 14 Universität Wien
- Wahrscheinlichkeitsrechnung: Vorlesung (StEOP), 1.5 hours, WS 11, 13, 14, 14 Universität Wien
- Linear Multivariate Statistics: Lecture + exercise, 2 hours, SS08, 09, 10, 11, 12, 13, 14, 15 University Vienna
- Biometrie (Mixed Models): Lect. + exercise, 2 hours, SS12, 13, 14, 15, University Vienna
- Seminary on statistical methods: Seminary, 1 hour WS and SS 11, 12, 13, 14, 15 Medical University Vienna
- Biometrie 1 (Mathematical and Statistical Methods for Genetic Analysis): Lect. + exercise, 2 hours, SS10, 11, University Vienna

- Introduction to Bioinformatics (one talk in a lecture series: "Statistical analysis of highdimensional data in bioinformatics")
WS 10, 11, 14, 15 University Vienna
- Introduction to probability: Lecture, 3 hours,
WS 06, 07, 08, 09, 10, University Vienna
- Markov Processes: Exercise, 1 hour,
WS 08, 09, 10, 11, University Vienna
- Vertiefung Biometrie (Biological sequence analysis): Lect. + exercise, 2 hours,
SS 09, University Vienna
- Analysis: Exercise, 2 hours,
SS 08, University Vienna
- Probability and Statistics: PhD course (lecture), 1 hour,
WS 07, University Vienna
- Nonparametrical Statistics: Exercise, 1 hour,
WS 06, 07, University Vienna
- FK Wirtschaftsstatistik 1 (Business Statistics): Lecture + exercise, 2 hours,
SS 05, WS 05, SS 06, University Vienna
- VK Wirtschaftsstatistik 2 (Business Statistics): Lecture + exercise, 1 hour,
WS 04, SS 05, WS 05, SS 06, University Vienna
- Grundzüge der Wirtschaftsmathematik und Wirtschaftsstatistik (Basic Course in Mathematics): Lecture + exercise, 2 hours,
WS 04, University Vienna
- Mathematical Statistics: Exercise, 2 hours,
WS 02, 03, 04, University Vienna
- Wahrscheinlichkeitstheorie 2 (Probability): Exercise, 2 hours,
SS 03, University Vienna
- Mathematics for Computer Engineers: Exercise, 2 hours,
WS 02, University Vienna
- Grundlagen der Biostatistik, Versuchsplanung und Literatursuche für Zahnmediziner (Basic statistics for dentists): Lecture + exercise, 1 hour
SS 03, Medical University Vienna
- Methoden der medizinischen Wissenschaft -SSM2 (Basic statistics for medical students): Lecture + exercise, 1 hour
SS 04, 05, 08, 12, Medical University Vienna

International:

- Statistik 3 (Measure theory and probability): Lecture, 4 hours, WS 12, LMU Munich
- Computer Intensive Methods: Lecture, 3 hours, WS 12, LMU Munich
- Practical Course in Statistics: 2 hours, WS 2012, LMU Munich
- Hidden Markov Models in Bioinformatics: PhD course, 1 hour, March 2009, TU Wroclaw
- Stat 311 (Introduction to probability): Lecture + exercise, 3 hours, Spring term 2007, Purdue University
- Stat 416 (Introduction to probability): Lecture + exercise, 3 hours, Spring term 2007, Purdue University (two sections)

Supervision:

Master students:

- Helga Arnardottir (2013): "Genetic Algorithms for Model Selection in QTL Mapping"
- Michael Hagmann (Working title): "Comparing some model selection procedures for GWAS analysis."
- Eleonore Pablik (Working title): "Modelling Retinal Nerve Fiber Layer Thickness with functional regression"

PhD students:

- Yao Xiaoguang (Cosupervision): Thesis in 2010 "*The association study between interactions of Furin and NEDD4 gene and gene-environment and essential hypertension in Kazaks population of Xinjiang*"

Cosupervision of Medical students:

- Robert Wiebringhaus (2014): "A Retrospective Analysis on Parenchyma Sparing Resection Methods in Pulmonary Metastasectomy"
- Nina-Katharina Walleczek (Working Title): "Saisonale Häufung des Geburtsdatums bei an Multiple-Sklerose Erkrankten"
- Dijana Madl (Working Title): "Auswirkungen des Assisted Hatching auf den Erfolg von IVF/ICSI-Behandlungen – eine retrospektive Datenanalyse"