

List of publications

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Online publication lists:

- MathSciNet: http://snipurl.com/rufibach_mathscinet (restricted access)
- PubMed: http://snipurl.com/rufibach_pubmed
- arXiv.org: http://snipurl.com/rufibach_arxiv
- ResearcherID: <http://www.researcherid.com/rid/F-1163-2010>

Articles in statistical journals (published or to appear):

- [15] **Rufibach, K. (2012)**. A smooth ROC curve estimator based on log-concave density estimates. *Int. J. Biostat.*, accepted.
- [14] **Rufibach, K. (2011)**. Selection models with monotone weight functions in meta analysis. *Biom. J.*, **53**(4), 689–704.
- [13] Dümbgen, L., **Rufibach, K. (2011)**. **logcondens**: Computations Related to Univariate Log-Concave Density Estimation. *Journal of Statistical Software*, **39**(6), 1–28.
- [12] Held, L., **Rufibach, K.**, Balabdaoui, F. (2010). A score regression approach to assess calibration of continuous probabilistic predictions. *Biometrics*, **66**(4), 1295–1305.
- [11] Balabdaoui, F., **Rufibach, K.**, Santambrogio, F. (2010). Least Squares estimation of two ordered monotone regression curves. *J. Nonparametr. Stat.*, **22**(8), 1019–1037.
- [10] **Rufibach, K.**, Walther, G. (2010). The block criterion for multiscale inference about a density, with applications to other multiscale problems. *J. Comput. Graph. Statist.*, **19**(1), 175–190.
- [9] **Rufibach, K. (2010)**. An Active Set Algorithm to Estimate Parameters in Generalized Linear Models with Ordered Predictors. *Comput. Statist. Data Anal.*, **54**, 1442–1456.
- [8] **Rufibach, K. (2009)**. **reporttools**: R Functions to Generate L^AT_EX Tables of Descriptive Statistics. *Journal of Statistical Software, Code Snippets*, **31**(1), 1–7.
- [7] Müller, S., **Rufibach, K. (2009)**. Smooth tail index estimation. *J. Stat. Comput. Simul.*, **79**(9), 1155–1167.
- [6] Balabdaoui, F., **Rufibach, K.**, Wellner, J. A. (2009). Limit distribution theory for maximum likelihood estimation of a log-concave density. *Ann. Statist.*, **37**(3), 1299–1331.
- [5] Dümbgen, L., **Rufibach, K. (2009)**. Maximum likelihood estimation of a log-concave density and its distribution function: basic properties and uniform consistency. *Bernoulli*, **15**(1), 40–68.
- [4] Müller, S., **Rufibach, K. (2008)**. On the max-domain of attraction of distributions with log-concave densities. *Statist. Probab. Lett.*, **78**(12), 1440–1444.
- [3] Balabdaoui, F., **Rufibach, K. (2008)**. A second Marshall inequality in convex estimation. *Statist. Probab. Lett.*, **78**(2), 118–126.

- [2] **Rufibach, K. (2007)**. Computing Maximum Likelihood Estimators of a log-concave Density Function. *J. Stat. Comput. Simul.*, **77**(7), 561–574.
- [1] **Rufibach, K.**, Bertschy, M., Schüttel, M., Vock, M., Wasserfallen, T. **(2001)**. Eintrittsraten und Austrittswahrscheinlichkeiten EVK 2000. *Mitteilungen der Schweizerischen Aktuarvereinigung*, **2001/1**, 49–70.

Papers under review for statistical journals:

- [16] Balabdaoui, F., Jankowski, H., and **Rufibach, K. (2011)**. Maximum likelihood estimation and confidence bands for a discrete log-concave distribution. *Submitted*.

Invited discussions in statistical journals (published or to appear):

- [D1] **Rufibach, K. (2010)**. Proposal of the vote of thanks in discussion of Cule, M., Samworth, R., and Stewart, M.: Maximum likelihood estimation of a multidimensional logconcave density. *J. R. Stat. Soc. Ser. B Stat. Methodol.*, **72**(5), 577–578.

Statistical papers in refereed proceedings:

- [P2] **Rufibach, K.**, Walther, G. **(2007)**. Criteria for multiscale inference. *Proceedings of the 56th Session of the International Statistical Institute, Lisbon, Portugal, 22-29 August 2007*.
- [P1] Dümbgen, L., **Rufibach, K.**, Wellner, J.A. **(2007)**. Marshall’s lemma for convex density estimation. *Asymptotics: Particles, Processes and Inverse problems (E. Cator, G. Jongbloed, C. Kraaikamp, R. Lopuha, J.A. Wellner, eds.)*, pp. 101–107. *IMS Lecture Notes - Monograph Series 55*, IMS, Hayward, USA.

Book reviews:

- [BR1] **Rufibach, K. (2011)**. Review of “Introduction to General and Generalized Linear Models” by Henrik Madsen and Poul Thyregod. *Biom. J.*, **53**(4), 705–706.

R packages available from CRAN <http://cran.r-project.org>:

- [S9] Schuhmacher, D., **Rufibach, K.**, Dümbgen, L. **(2011)**. **logconcens**: Maximum likelihood estimation of a log-concave density based on censored data. <http://cran.r-project.org/package=logconcens>.
- [S8] **Rufibach, K.**, Balabdaoui, F., Jankowski, H., Weyermann, K. **(2011)**. **logcondiscr**: Estimate a Log-Concave Probability Mass function from Discrete i.i.d. Observations. <http://cran.r-project.org/package=logcondiscr>.
- [S7] **Rufibach, K. (2010)**. **selectMeta**: Estimation weight functions in meta analysis. <http://cran.r-project.org/package=selectMeta>.
- [S6] **Rufibach, K. (2009)**. **OrdFacReg**: Least squares, logistic, and Cox-regression with ordered predictors. <http://cran.r-project.org/package=OrdFacReg>.
- [S5] Balabdaoui, F., **Rufibach, K.**, Santambrogio, F. **(2009)**. **OrdMonReg**: Compute least squares estimates of one bounded or two ordered antitonic regression curves. <http://cran.r-project.org/package=OrdMonReg>.
- [S4] **Rufibach, K. (2008)**. **reporttools**: Generate L^AT_EX tables of descriptive statistics. <http://cran.r-project.org/package=reporttools>.
- [S3] **Rufibach, K.**, Walther, G. **(2007)**. **modehunt**: Multiscale analysis about a density. <http://cran.r-project.org/package=modehunt>.
- [S2] **Rufibach, K.**, Müller, S. **(2006)**. **smoothtail**: Smooth Estimation of GPD Shape Parameter. <http://cran.r-project.org/package=smoothtail>.
- [S1] **Rufibach, K.**, Dümbgen L. **(2006)**. **logcondens**: Estimate a Log-Concave Probability Density from i.i.d. Observations. <http://cran.r-project.org/package=logcondens>.

Contributions to R packages available from CRAN <http://cran.r-project.org>:

The methodology introduced in

- [15] **Rufibach, K. (2011)**. A smooth ROC curve estimator based on log-concave density estimates.

is also available in the package <http://cran.r-project.org/package=pROC> (function `smooth()`).

R-Packages for internal use:

- [SI2] **Rufibach, K. (2010)**. **teachingUZH**: Provide teaching material of the Biostatistics Unit, University of Zurich.
- [SI1] **Rufibach, K. (2009)**. **biostatUZH**: Implements functions and datasets developed and used at the Biostatistics Unit, University of Zurich.

Research articles in Biomedical Journals:

- [M31] Mueller-Pfeiffer, C., **Rufibach, K.**, Perron, N., Wyss, D., Kuenzler, C., Prezewowsky, C., Pitman, R. K., Rufer M. (2012). Global functioning and disability in dissociative disorders. *Psychiatry Research*, accepted.
- [M30] Emler, C., Jacomella, V., **Rufibach, K.**, Thalhammer, C., Amann-Vesti, B., Husmann, M. (2012). Pressure indices in peripheral arterial disease assessed by infrared photosensors. *Angiology*, accepted.
- [M29] Spross, C., Platz, A., **Rufibach, K.**, Lattmann, T., Forberger, J., Dietrich, M. (2012). The PHILOS Plate for Proximal Humeral Fractures - Risk Factors for Complications at one Year. *J Trauma Acute Care Surg.*, 72(3), 783–792.
- [M28] Poletti-Muringaseril, S., **Rufibach, K.**, Ruef, C., Holzmann, D., Soyka, M. (2012). Low meningitis-incidence in primary spontaneous compared to secondary cerebrospinal fluid rhinorrhoea. *Rhinology*, 50(1):73–79.
- [M27] Hahn, F., Erschbamer, M., Allenspach, P., **Rufibach, K.**, Schweizer, A. (2012). Physiological bone responses in the fingers after >10 years of high level sport climbing. *Wilderness Environ Med.*, 23(1), 31–36.
- [M26] Weber, U., Lambert, R.G.W., **Rufibach, K.**, Maksymowych, W., Hodler, J., Zejden, A., Duewell, S., Kissling, R.O., Filipow, P.L., Jurik, A.G. (2012). Anterior chest wall inflammation by whole body MRI in patients with spondyloarthritis: Lack of association between clinical and imaging findings in a cross-sectional study. *Arthritis Res Ther.*, 14(1), R3.
- [M25] Guggenberger, R., Nanz, D., Puippe, G., **Rufibach, K.**, White, L.W., Sussman, M.S., Andreisek, G. (2011). Diffusion tensor imaging of the median nerve: Intra-, inter-reader agreement and agreement between two software packages. *Skeletal Radiol.*, accepted.
- [M24] Soyka, M.D., Nikolaoui, G., **Rufibach, K.**, Holzmann, D. (2011). On the effectiveness of treatment options in epistaxis: An analysis on 678 patients. *Rhinology*, 49(4), 474–478.
- [M23] von Websky*, M., Oberkofler*, C.E., **Rufibach, K.**, Raptis, D.A., Lehmann, K., Hahnloser, D., Clavien, P.A. (2011). Modifying the concept of Job Satisfaction for Surgical Training Programs: Modern management tools ensure trainee motivation and success. *Surgery*, accepted.
- [M22] Allenspach P., Saupe N., **Rufibach, K.**, Schweizer A. (2011). Radiological changes and signs of osteoarthritis in the fingers of male performance sportclimbers. *J Sports Med Phys Fitness*, 51(3), 497–505.
- [M21] Jaberg, L., Toggweiler, S., Puck, M., **Rufibach, K.**, Lüscher, T.F., Corti, R. (2011). The prognostic value of N-terminal proBNP in patients with acute coronary syndromes undergoing left main PCI. *Circ J.*, 75(11), 2648–2653.

- [M20] Britschgi, M., **Rufibach, K.**, Bauer Huang, S.L., Clark, C.M., Kaye, J.A., Li, G., Peskind, E.R., Quinn, J.F., Galasko, D.R., Wyss-Coray, T. (2011). Modeling of pathological traits in Alzheimer's disease based on extracellular signaling proteome. *Mol Cell Proteomics*, **10**(10).
- [M19] Taegtmeyer, A.B., Curkovic, I., **Rufibach, K.**, Corti, N., Battegay, E., Kullak-Ublick, G.A. (2011). Electronic prescribing increases uptake of clinical pharmacologists' recommendations in the hospital setting. *Br. J. Clin. Pharmacol.*, **72**(6), 958–64.
- [M18] Steurer-Dober I., **Rufibach, K.**, Hodler, J., Saupe, N., Zanetti, M., Fucntese, S., Pfirmann, C.W.A. (2010). Do Patients with MR Abnormalities of the Shoulder Experience Pain after MR Arthrography of the Shoulder? *Radiology*, **256**(3), 870–878.
- [M17] Thalhammer, C., Ferriani, V., Husmann, M., **Rufibach, K.**, Meier, T., Amann-Vesti, B.R. (2010). Predictive value of duplex ultrasound for restenosis after renal artery stenting. *Clin. Hemorheol. Microcirc.*, **45**, 217–224.
- [M16] Sürder, D., Schwitter, J., Moccetti, T., Astori, G., **Rufibach, K.**, Plein, S., Lo Cicero, V., Soncin, S., Windecker, S., Moschovitis, A., Wahl, A., Erne, P., Jamshidi, P., Auf der Maur, C., Manka, R., Soldati, Bühler, I., Wyss, C., G., Landmesser, U., Lüscher, T.F., Corti, R. (2010). Cell-based therapy for myocardial repair in patients with acute myocardial infarction: Rationale and study design of the SWISS multicenter Intracoronary Stem cells Study in Acute Myocardial Infarction (SWISS-AMI). *Am Heart J.*, **160**(1), 58–64.
- [M15] Soyka, M.B., **Rufibach, K.**, Huber, A., Holzmann, D. (2010). Is Severe Epistaxis Associated With Acetylsalicylic Acid Intake? *Laryngoscope*, **120**(1), 200–207.
- [M14] Nocito, A., Wildi, S., **Rufibach, K.**, Clavien, P.A., Weber, M. (2009). Placement of implantable venous access ports in oncologic surgery: A prospective randomized trial comparing venous cut-down versus Seldinger technique. *Br. J. Surg.*, **96**(10), 1129–1134.
- [M13] Britschgi, M., Olin, C.E., Johns, H., Takeda-Uchimura, Y., LeMieux, M., **Rufibach, K.**, Rajadas, J., Zhang, H., Tmooka, B., Robinson, W.H., Clark, C.M., Fagan, A.M., Galasko, D.G., Holtzman, D.M., Jutel, M., Leszek, J., Li, G., Peskind, E.R., Quinn, J.F., Yesavagem, J.A., Ghiso, J.A., and Wyss-Coray, T. (2009). Neuroprotective natural antibodies to assemblies of amyloidogenic peptides decrease with normal aging and advancing Alzheimer's disease. *Proc. Natl. Acad. Sci. U.S.A.*, **106**(29), 12145–12150.
- [M12] Weber, U., Hodler, J., Kubik, R.A., **Rufibach, K.**, Lambert, R.G.W., Kissling, R.O., Pfirmann, C.W.A., Maksymowych, W.P. (2009). Sensitivity and specificity of spinal inflammatory lesions assessed by whole body MRI in spondyloarthritis and recent-onset inflammatory back pain. *Arthritis Rheum.*, **61**(7), 900-908.
- [M11] Weber, U., Maksymowych, W.P., Jurik, A.G., Pfirmann, C.W.A., **Rufibach, K.**, Kissling, R.O., Khan, M.A., Lambert, R.G.W., Hodler, J. (2009). Validation of whole body MRI against conventional MRI for scoring acute inflammatory lesions in the sacroiliac joints of patients with spondyloarthritis. *Arthritis Rheum.*, **61**(7), 893–899.
- [M10] Weber, U., Hodler, J., Jurik, A.G., Pfirmann, C.W.A., **Rufibach, K.**, Kissling, R.O., Khan, M.A., Lambert, R.G.W., Maksymowych, W.P. (2010). Assessment of acute spinal inflammatory changes in patients with spondyloarthritis: Validation of whole body MRI against conventional MRI. *Ann. Rheum. Dis.*, **69**(4), 648–653.
- [M9] Hermanns*, T., Sauermaun*, P., **Rufibach, K.**, Frauenfelder, T., Sulser, T., Strelbel, R.T. (2009). Is there a role for tamsulosin in the treatment of distal ureteral stones ≤ 7 mm? Results of a randomised, double-blind, placebo-controlled trial. *Eur. Urol.*, **56**(3), 407–412.
- [M8] Furrer, M., Schweizer, A., **Rufibach, K.**, Meuli-Simmen, C. (2009). The value of ultrasonography in handsurgery. *Hand*, **4**(4), 385–90.
- [M7] Ruhstaller, T., von Moos, R., **Rufibach, K.**, Ribi, K., Glaus, A., Spaeti, B., Koeberle, D., Mueller, U., Hoeffiger, M., Hess, D., Boehme, C., Thuerlimann, B. (2009). Breast Cancer Patients on Endocrine Therapy Reveal More Symptoms when Self-Reporting than in Pivotal Trials: An Outcome Research Study. *Oncology*, **76**(2), 142-148.

- [M6] Münger-Beyeler, C., Bernhard, J., **Rufibach, K.**, Morant, R., Schmid, H.-P. (2008). Quality of analgesic treatment in patients with advanced prostate cancer: Do we do a better job now? The Swiss Group for Clinical Cancer Research (SAKK) Experience. *Support. Care Cancer*, **16**(5), 461–467.
- [M5] Roth, A. D., Fazio, N., Stupp, R., Falk, S., Bernhard, J., Saletti, P., Köberle, D., Borner, M. M., **Rufibach, K.**, Maibach, R., Wernli, M., Mainwaring, P., Harrison, M., Widmer, L., Seymour, M., de Braud, F. (2007). Docetaxel-Cisplatin-5FU versus Docetaxel-Cisplatin versus Epirubicin-Cisplatin-5FU as systemic treatment for advanced gastric carcinoma: A randomized phase II trial of the SAKK. *J. Clin. Oncol.*, **25**(22), 3217–3223.
- [M4] Ribi, K., Bernhard, J., **Rufibach, K.**, Thürlimann, B., von Moos, R., Ruhstaller, T., Glaus, A., Böhme, C. (2007). Endocrine symptom assessment in women with breast cancer: what a simple “yes” means. *Support. Care Cancer*, **15**(12), 1349–1356.
- [M3] Ghielmini, M., **Rufibach, K.**, Salles, G., Leoncini-Francini, L., Leger-Falandry, C., Cogliatti, S., Fey, M., Martinelli, G., Stahel, R., Lohri, A., Ketterer, N., Wernli, M., Cerny, T. and Hsu-Schmitz, S. (2005). Single agent rituximab in patients with follicular or mantle cell lymphoma: clinical and biological factors which are predictive of response and event free survival as well as the effect of rituximab on the immune system. *Ann. Oncol.*, **16**(10), 1675–1682.
- [M2] Taussky, D., **Rufibach, K.**, Huguenin, P., Allal, A. (2005). Risk factors for developing a second aerodigestive cancer after radiotherapy with or without chemotherapy for head and neck cancer: An exploratory outcome analysis. *Int. J. Radiat. Oncol. Biol. Phys.*, **62**(3), 684–689.
- [M1] Huguenin, P., Beer, K., Allal, A., **Rufibach, K.**, Friedli, C., Davies, B. D., Pestalozzi, B., Schmid, S., Thöni, A., Oszahin, M., Bernier, J., Töpfer, M., Kann, R., Meier, U. R., Thum, P., Bieri, S., Notter, M., Lombriser, N., Glanzmann, C. (2004). Concomitant Cisplatin Significantly Improves Loco-Regional Control in Advanced Head and Neck Cancers Treated with Hyperfractionated Radiotherapy. *J. Clin. Oncol.*, **22**(23), 4613–4621.

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Letters to the editor in Biomedical Journals:

- [ML3] **Rufibach, K.** (2010). Use of Brier Score to assess binary predictions. *Journal of Clinical Epidemiology*, **63**(8), 938–939.
- [ML2] Zenhäusern, R., von Rohr, A., **Rufibach, K.**, Solenthaler, M., Meyer-Monard, S., Gratwohl, A., Hess, U., Bargetzi, M., Kovacovic, T., Leoncini, L., Tobler, A. (2009). Low dose 2-chlorodeoxyadenosine given as a single subcutaneous injection in patients with hairy cell leukemia - a multicentre trial SAKK 32/95. *Leuk Lymphoma*, **50**(1), 133–136.
- [ML1] Herrmann, R., Lorenz, M., Zuber, M., **Rufibach, K.**, Laffer, U. (2009). Perioperative and adjuvant chemotherapy in colon cancer: results of SAKK trial 40/93. *Int J Colorectal Dis.*, **24**(3), 351–352.

Invited contributions in Biomedical Journals:

- [MC1] **Rufibach, K.** (2010). Assessment of paired binary data. *Skeletal Radiology*, “Perspective section”, **40**(1), 1–4.

Unpublished Technical reports:

- [TR1] Dümbsgen, L., Hüsler, A., **Rufibach, K.** (2010). Active Set and EM Algorithms for Log-Concave Densities Based on Complete and Censored Data. *Department of Mathematical Statistics, University of Bern, Technical Report*, 61, 1–26.

Theses:

- [Th2] **Rufibach, K. (2006)**. Log-concave Density Estimation and Bump Hunting for i.i.d. Observations. *PhD Thesis, University of Bern, Switzerland and Georg-August University of Göttingen, Germany*. http://www.stub.unibe.ch/download/eldiss/06rufibach_k.pdf.
- [Th1] **Rufibach, K. (2001)**. Phasenrekonstruktion von Gleichverteilungen in \mathbb{R}^d . *Diploma Thesis, University of Bern, Switzerland*.

Lecture Notes:

- [Ln1] Held, L., **Rufibach, K.**, Seifert, B. (2011). Introduction to Biostatistics (in german), 180 pages, 7th edition. *Biostatistics Unit, Institute for Social- and Preventive Medicine, University of Zurich*. <http://www.biostat.uzh.ch/teaching/lecturenotes/scripts.html>.