

# Kulathinal, Sangita

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### Opetus / Undervisning / Teaching

[Event-history analysis, fall 2014](#)

[Event-history analysis, spring 2010](#)

[Nonparametric Statistics, spring 2009](#)

[Event-history analysis, fall 2008](#)

### List of publication

20 most recent publications (in peer-reviewed journals):

1. Mehtälä, J., Auranen, K., Kulathinal, S. (2014). Optimal observation times for multistate Markov models? applications to pneumococcal colonization studies. *Journal of Royal Statistical Society, Series C* (in press).
2. Kulathinal, S. and Säävälä, M. (2014). Fertility intentions and early life health stress among women in eight Indian cities: testing the reproductive acceleration hypothesis. *Journal of Biosocial Science*, Available on CJO 2014 doi:10.1017/S0021932014000261
3. Saarela, O., Kulathinal, S. and Karvanen, J. (2012). Secondary Analysis under Cohort Sampling Designs Using Conditional Likelihood. *Journal of Probability and Statistics*, doi:10.1155/2012/931416.
4. Punathumpambath, B., Kulathinal, S., George, S. (2012). Asymmetric type II compound Laplace distribution and its application to microarray gene expression. *Computational Statistics and Data Analysis*, 56: 1396-1404.
5. Mehtälä, J., Auranen, K., Kulathinal, S. (2011). Optimal designs for epidemiologic longitudinal studies with binary outcomes. *Stat Methods Med Res.*
6. Kulathinal, S., Shalabh, Joseph, B. (2011). Analysis of pooled time series and spatial data with an application to water level data. *Journal of Applied Statistical Science*, 18(3).
7. Gasbarra, D., Kulathinal, S., Pirinen, M., Sillanpää, M. (2011). Estimating frequencies of ascertained haplotypes by combining genetic data from large DNA pools with database information. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 8(1): 36-44.

8. Goenka, S., Tewari, A., Arora, M., Stigler, M.H., Perry, C.L., Arnold, S., Kulathinal, S., and Reddy, K.S. (2010). Process Evaluation of a Tobacco Prevention Program in Indian Schools - Methods, Results and Lessons Learnt. *Health Education and Research*, 25(6): 917-935.
9. Chatterjee, B., Kulathinal, S., Bhargava, A., Jain, Y., Kataria, R. (2009). Antimicrobial resistance stratified by risk factor among *Escherichia coli* strains isolated from the urinary tract at a rural clinic in Central India. *Indian Journal of Medical Microbiology*, 27(4): 325-328.
10. Saarela, O., Kulathinal, S., Karvanen, J. (2009). Joint analysis of prevalence and incidence data using conditional likelihood. *Biostatistics*, 10(3): 575-587.
11. Asplund K, Karvanen J, Giampaoli S, Jousilahti P, Niemel M, Broda G, Cesana G, Dallongeville J, Ducimetriere P, Evans A, Ferreres J, Haas B, Jorgensen T, Tamosiunas A, Vanuzzo D, Wiklund PG, Yarnell J, Kuulasmaa K, Kulathinal S, for theMORGAM Project. (2009). Relative risks for stroke by age, sex and population based on follow-up of 18 European populations in the MORGAM Project. *Stroke*, 40: 2319-2326.
12. Pirinen, M., Kulathinal, S., Gasbarra, D., Sillanpää, M. (2008). Estimating population haplotype frequencies from pooled DNA samples using PHASE algorithm. *Genetics Research*, 90(6): 509-524.
13. Silander, K., Alanne, M., Kristiansson, K., Saarela, O., Ripatti, S., Auro, K., Karvanen, J., Kulathinal, S., Niemelä, M., Ellonen, P., Vartiainen, E., Jousilahti, P., Saarela, J., Kuulasmaa, K., Evans, A., Perola, M., Salomaa, V., Peltonen, L. (2008). Gender Differences in Genetic Risk Profiles for Cardiovascular Disease. *PLoS ONE*, 3(10): e3615. doi:10.1371/journal.pone.0003615.
14. Saarela, O., Kulathinal, S., Arjas, E., Läärä, E. (2008). Nested case-control data utilised for multiple outcomes: A likelihood approach and alternatives. *Statistics in Medicine*, 27(28), 5991-6008, DOI: 10.1002/sim.3416.
15. Kulathinal, S., Gasbarra, D., Kinra, S., Ebrahim, S. and Sillanpää, M. for the Indian Migration Study Group. (2008). Estimation of additive genetic and environmental sources of quantitative trait variation using data on married couples and their siblings. *Genetics Research*, 90, 269-279.
16. Gupta, R., Arjas, E., Kulathinal, S., Thomas, A. and Auvinen, P. (2008). Bayesian hierarchical model for estimating gene expression intensity using multiple scanned microarrays. *EURASIP Journal on Bioinformatics and Systems Biology*, Volume 2008, Article ID 231950, 11 pages. doi:10.1155/2008/231950.
17. Karvanen, J., Kulathinal, S., Gasbarra D. (2008). Optimal designs to select individuals for genotyping conditional on observed binary or survival outcomes and non-genetic covariates. *Computational Statistics and Data Analysis*. Available on-line doi:10.1016/j.csda.2008.02.010.
18. Gupta, R., Somervuo, P., Kulathinal, S., Auvinen, P. (2008). Optimal designs for microarray experiments with biological and technical replicates. In the *Recent Advances in Linear Models and Related Areas*, Edited by Shalabh and C. Heumann, Springer, pages 389-400.
19. Dewan, I. and Kulathinal, S. (2007). On confidence intervals for subquantiles under the competing risks set-up. *Journal of the Indian Statistical Association*, 45(2), 141-156.
20. Kulathinal, S., Karvanen, J., Saarela, O. and Kuulasmaa, K. (2007). Case-cohort design in practice – experiences from the MORGAM Project. *Epidemiologic Perspectives & Innovations*, 4:15 doi:10.1186/1742-5573-4-15. Available at: <http://www.epiperspectives.com/content/4/1/15>.

## Web publications:

1. Saarela, O. and Kulathinal S for the MORGAM Project. Description and quality of baseline data: Awareness and treatment of high blood pressure and cholesterol. Available from: URL: <http://www.ktl.fi/publications/morgam/qa/baseline/highbpchol/highbpcholqa.htm>
2. India 60 and Finland 90 - Social well-being and gender equity in a globalising world: Dialogue between India and Finland. (March 2008). Edited by Säävälä M and Kulathinal S. Available from: URL: <http://www.inseed.org/publ/2008/e-book/index.html>
3. Saarela O, Tolonen H, Kulathinal S, Niemelä M and Kuulasmaa K for the MORGAM Project. (December 2007). Description and quality of the baseline data: Smoking. Available from: URL: <http://www.ktl.fi/publications/morgam/qa/baseline/smoking/smokeqa.htm>
4. Description and quality assessment of MORGAM data. (July, 2007). Edited by Niemelä M, Kulathinal S and Kuulasmaa K for the MORGAM Project. Available from: URL: <http://www.ktl.fi/publications/morgam/qa/contents.htm>, URN:NBN:fi-fe20071495.

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