Samuel Muller
School of Mathematical and Physical Sciences
DataX Research Centre
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Biography
Samuel Muller is a Professor of Statistics and a Fellow of the American Statistical Association with expertise in variable selection and inference for statistically challenging data. He is the inaugural Head of School in the School of Mathematical and Physical Sciences and a Theory and Methods Editor for the Australian and New Zealand Journal of Statistics. He served a full term on the Australian Research Council College of Experts until 2021. His past employment includes

Macquarie University: from 2020 - present

Head, School of Mathematical and Physical Sciences, since 2022

Head, Department of Mathematics and Statistics, 2020-2021
University of Sydney: from 2008 to 2020

Head (Acting and Interim), School of Mathematics and Statistics, 2019 - 2020

Promoted to Professor of Statistics, 2018

Associate Dean Research Education, Faculty of Science, 2016-2019

Promoted to Associate Professor, 2015

Promoted to Senior Lecturer, 2010

Lecturer, School of Mathematics and Statistics
University of Western Australia: from 2006 to 2007

Lecturer, School of Mathematics and Statistics
Australian National University: from 2003 to 2004

Postdoctoral Fellowship (funded by the Swiss National Science Foundation), Mathematical Sciences Institute
University of Bern (Switzerland): from 1998 to 2003 and 2004 to 2006

Lecturer, Department of Mathematical Statistics and Actuarial Science, 2002-2003 and 2004-2006

Associate Lecturer, Department of Mathematical Statistics and Actuarial Science, 1998-2002

Qualifications
Mathematics, PhD, Endpoint, Tail Index, and Support Estimation in Extreme Value Theory, University of Bern
Award Date: 1 Nov 2002

Statistics and Insurance Mathematics, Diploma (MSc), The Robustness of the Friedman Test, University of Bern
Award Date: 1 Oct 1998

Employment
Head of School, Mathematical and Physical Sciences
School of Mathematical and Physical Sciences
Macquarie University
11 Mar 2022 → present

DataX Research Centre
Macquarie University
1 Jan 2023 → 31 Dec 2027

Honorary Professor
University of Sydney
Camperdown, Australia
1 Sept 2020 → 31 Aug 2026

College of Experts, Member
Australian Research Council
Research outputs

**NEMoE: a nutrition aware regularized mixture of experts model to identify heterogeneous diet-microbiome-host health interactions**
Xu, X., Lubomski, M., Holmes, A. J., Sue, C. M., Davis, R. L., Muller, S. & Yang, J. Y. H., Dec 2023, In: Microbiome. 11, p. 1-14 14 p., 51.

**A Multi-step precision pathway for predicting allograft survival in heterogeneous cohorts of kidney transplant recipients**
Zhang, Y., Deng, D., Muller, S., Wong, G. & Yang, J. Y. H., Sept 2023, In: Transplant International. 36, 9, p. 1-8 8 p., 11338.

**Screening methods for linear errors-in-variables models in high dimensions**
Nghiem, L. H., Hui, F. K. C., Müller, S. & Welsh, A. H., Jun 2023, In: Biometrics. 79, 2, p. 926-939 14 p.

**GEE-assisted variable selection for latent variable models with multivariate binary data**
Hui, F. K. C., Müller, S. & Welsh, A. H., 2023, In: Journal of the American Statistical Association. 118, 542, p. 1252-1263 12 p.

**simKAP: simulation framework for the kidney allocation process with decision making model**
Zhang, Y., Hu, A., Lin, Y., Cao, Y., Muller, S., Wong, G. & Yang, J. Y. H., 2023, In: Scientific Reports. 13, p. 1-9 9 p., 16367.

**Surface area estimation using 3D point clouds and Delaunay triangulation**
Farhood, H., Muller, S. & Beheshti, A., 2023, Proceedings of the Second International Conference on Innovations in Computing Research (ICR'23). Daimi, K. & Al Sadoon, A. (eds.). Cham: Springer, Springer Nature, p. 28-39 12 p. (Lecture Notes in Networks and Systems; vol. 721).

**Cross-Platform Omics Prediction procedure: a statistical machine learning framework for wider implementation of precision medicine**
Wang, K. Y. X., Pupo, G. M., Tembe, V., Patrick, E., Strbenac, D., Schramm, S. J., Thompson, J. F., Scolyer, R. A., Muller, S., Tarr, G., Mann, G. J. & Yang, J. Y. H., Dec 2022, In: npj Digital Medicine. 5, 1, p. 1-10 10 p., 85.

**Estimation of graphical models for skew continuous data**
Nghiem, L. H., Hui, F. K. C., Müller, S. & Welsh, A. H., Dec 2022, In: Scandinavian Journal of Statistics. 49, 4, p. 1811-1841 31 p.

**Robust subtractive stability measures for fast and exhaustive feature importance ranking and selection in generalised linear models**
Smith, C., Guennewig, B. & Muller, S., Sept 2022, In: Australian and New Zealand Journal of Statistics. 64, 3, p. 339-355 17 p.

**The gut microbiome in Parkinson’s disease: A longitudinal study of the impacts on disease progression and the use of device-assisted therapies**
Lubomski, M., Xu, X., Holmes, A. J., Muller, S., Yang, J. Y. H., Davis, R. L. & Sue, C. M., 17 May 2022, In: Frontiers in Aging Neuroscience. 14, p. 1-24 24 p., 875261.

**Nutritional intake and gut microbiome composition predict Parkinson’s disease**
Lubomski, M., Xu, X., Holmes, A. J., Muller, S., Yang, J. Y. H., Davis, R. L. & Sue, C. M., 11 May 2022, In: Frontiers in Aging Neuroscience. 14, p. 1-16 16 p., 881872.

**COMBSS: Best Subset Selection via Continuous Optimization**
Moka, S., Liquet, B., Zhu, H. & Muller, S., 5 May 2022, (Submitted) arXiv.org, (arXiv).
**Sparse sliced inverse regression via Cholesky matrix penalization**
Nghiem, L. H., Hui, F. K. C., Müller, S. & Welsh, A. H., 2022, In: Statistica Sinica. 32, p. 2431-2453 23 p.

**SurvBenchmark: comprehensive benchmarking study of survival analysis methods using both omics data and clinical data**
Zhang, Y., Wong, G., Mann, G., Muller, S. & Yang, J. Y. H., 2022, In: GigaScience. 11, p. 1-13 13 p.

Gut microbiota and nutritional profiles of Parkinson's disease patients
Lubomski, M., Xu, X., Holmes, A., Muller, S., Yang, J., Sue, C. M. & Davis, R. L., Aug 2021, In: BMJ Neurology Open. 3, Suppl 1, p. A6-A7 2 p., 015.

**svReg: structural varying-coefficient regression to differentiate how regional brain atrophy affects motor impairment for Huntington disease severity groups**
Kim, R., Müller, S. & Garcia, T. P., Aug 2021, In: Biometrical Journal. 63, 6, p. 1254-1271 18 p.

The gut microbiome in Parkinson's disease: longitudinal insights into disease progression and the use of device-assisted therapies
Lubomski, M., Xu, X., Holmes, A. J., Muller, S., Yang, J., Sue, C. M. & Davis, R. L., Aug 2021, In: BMJ Neurology Open. 3, Suppl 1, p. A14 1 p., 037.

**Prediction modeling-part 2: using machine learning strategies to improve transplantation outcomes**
Coorey, C. P., Sharma, A., Muller, S. & Yang, J. Y. H., Apr 2021, In: Kidney International. 99, 4, p. 817-823 7 p.

Random effects misspecification can have severe consequences for random effects inference in linear mixed models
Hui, F. K. C., Müller, S. & Welsh, A. H., Apr 2021, In: International Statistical Review. 89, 1, p. 186-206 21 p.

**mcvis: a new framework for collinearity discovery, diagnostic, and visualization**
Lin, C., Wang, K. & Muller, S., 2021, In: Journal of Computational and Graphical Statistics. 30, 1, p. 125-132 8 p.

A personalised prediction model for allograft survival after kidney transplantation
Zhang, Y., Yang, J., Wong, G. & Muller, S., Sept 2020, In: Transplantation. 104, S3, p. S41 1 p.

Identification of driven risk factors for HLA-DR in kidney transplantation
Zhang, Y., Yang, J., Muller, S. & Wong, G., Sept 2020, In: Transplantation. 104, S3, p. S420 1 p., P-11.136.

The LASSO on latent indices for regression modeling with ordinal categorical predictors
Hui, F. K. C., Müller, S. & Welsh, A. H., Sept 2020, In: Computational Statistics and Data Analysis. 149, p. 1-13 13 p., 106951.

**LC-N2G: a local consistency approach for nutrigenomics data analysis**
Xu, X., Solon-Biet, S. M., Senior, A., Raubenheimer, D., Simpson, S. J., Fontana, L., Mueller, S. & Yang, J. Y. H., 2020, In: BMC Bioinformatics. 21, p. 1-14 14 p., 530.

**mcvis: multi-collinearity visualization**
Wang, K., Lin, C. & Mueller, S., 2020

**mcvis: multi-collinearity visualisation**
Wang, K. & Muller, S., 2020, In: Biometric Bulletin. 37, 3, p. 12-14 3 p.

Fast and approximate exhaustive variable selection for generalised linear models with APES
Wang, K. Y. X., Tarr, G., Yang, J. Y. H. & Mueller, S., Dec 2019, In: Australian and New Zealand Journal of Statistics. 61, 4, p. 445-465 21 p.
Semiparametric regression using variational approximations
Hui, F. K. C., You, C., Shang, H. L. & Müller, S., 2 Oct 2019, In: Journal of the American Statistical Association. 114, 528, p. 1765-1777 13 p.

Melanoma Explorer: a web application to allow easy reanalysis of publicly available and clinically annotated melanoma omics data sets
Strbenac, D., Wang, K., Wang, X., Dong, J., Mann, G. J., Mueller, S. & Yang, J. Y. H., Jun 2019, In: Melanoma Research. 29, 3, p. 342-344 3 p.

A radiographic analysis of the abnormal hallux interphalangeus angle range: considerations for surgeons performing Akin osteotomies
Nguyen, J. K., Sullivan, M., Alpuerto, B. B., Mueller, S. & Sly, N., 1 May 2019, In: Journal of Orthopaedic Surgery. 27, 2, p. 1-5 5 p.

bcGST: an interactive bias-correction method to identify over-represented gene-sets in boutique arrays
Wang, K. Y. X., Menzies, A. M., Silva, I. P., Wilmott, J. S., Yan, Y., Wongchenko, M., Kefferd, R. F., Scolyer, R. A., Long, G. V., Tarr, G., Mueller, S. & Yang, J. Y. H., 15 Apr 2019, In: Bioinformatics. 35, 8, p. 1350-1357 8 p.

Testing random effects in linear mixed models: another look at the F-test (with discussion)
Hui, F. K. C., Müller, S. & Welsh, A. H., Mar 2019, In: Australian and New Zealand Journal of Statistics. 61, 1, p. 61-84 24 p.

mplot: an R package for graphical model stability and variable selection procedures
Tarr, G., Müller, S. & Welsh, A. H., Feb 2018, In: Journal of Statistical Software. 83, 9, p. 1-28 28 p.

Hierarchical selection of fixed and random effects in generalized linear mixed models
Hui, F. K. C., Müller, S. & Welsh, A. H., Apr 2017, In: Statistica Sinica. 27, 2, p. 501-518 18 p.

A multi-step classifier addressing cohort heterogeneity improves performance of prognostic biomarkers in three cancer types
Patrick, E., Schramm, S-J., Ormerod, J. T., Scolyer, R. A., Mann, G. J., Mueller, S. & Yang, J. Y. H., 2017, In: Oncotarget. 8, 2, p. 2807-2815 9 p.

A variational bayes approach to variable selection
Ormerod, J. T., You, C. & Müller, S., 2017, In: Electronic Journal of Statistics. 11, 2, p. 3549-3594 46 p.

Joint selection in mixed models using regularized PQL
Hui, F. K. C., Müller, S. & Welsh, A. H., 2017, In: Journal of the American Statistical Association. 112, 519, p. 1323-1333 11 p.

Cox regression with exclusion frequency-based weights to identify neuroimaging markers relevant to huntington's disease onset
Identification, review, and systematic cross-validation of microRNA prognostic signatures in metastatic melanoma
Jayawardana, K., Schramm, S-J., Tembe, V., Mueller, S., Thompson, J. F., Scolyer, R. A., Mann, G. J. & Yang, J., Jan 2016, In: Journal of Investigative Dermatology. 136, 1, p. 245-254 10 p.

On generalized degrees of freedom with application in linear mixed models selection
You, C., Müller, S. & Ormerod, J. T., Jan 2016, In: Statistics and Computing. 26, 1-2, p. 199-210 12 p.

Robust estimation of precision matrices under cellwise contamination
Tarr, G., Müller, S. & Weber, N. C., Jan 2016, In: Computational Statistics and Data Analysis. 93, p. 404-420 17 p.

Fast and flexible methods for monotone polynomial fitting
Murray, K., Müller, S. & Turlach, B. A., 2016, In: Journal of Statistical Computation and Simulation. 86, 15, p. 2946-2966 21 p.

rpql: regularized PQL for joint selection in GLMMs
Hui, F. K. C., Mueller, S. & Welsh, A. H., 2016

Inferring data-specific micro-RNA function through the joint ranking of micro-RNA and pathways from matched micro-RNA and gene expression data
Patrick, E., Buckley, M., Müller, S., Lin, D. M. & Yang, J. Y. H., 1 Sept 2015, In: Bioinformatics. 31, 17, p. 2822-2828 7 p.

Adenocarcinomas of the upper third of the rectum and the rectosigmoid junction seem to have similar prognosis as colon cancers even without radiotherapy, SAKK 40/87
Käser, S. A., Froelicher, J., Li, Q., Müller, S., Metzger, U., Castiglione, M., Laffer, U. T. & Maurer, C. A., Aug 2015, In: Langenbeck's Archives of Surgery. 400, 6, p. 675-682 8 p.

Much more than U-statistics: a symposium to celebrate Neville C. Weber
Tarr, G. & Müller, S., Jun 2015, In: The Newsletter of the Statistical Society of Australia. 151, p. 10-12 3 p.

The difference of symmetric quantiles under long range dependence
Tarr, G., Weber, N. C. & Müller, S., Mar 2015, In: Statistics and Probability Letters. 98, p. 144-150 7 p.

Determination of prognosis in metastatic melanoma through integration of clinico-pathologic, mutation, mRNA, microRNA, and protein information
Jayawardana, K., Schramm, S. J., Haydu, L., Thompson, J. F., Scolyer, R. A., Mann, G. J., Müller, S. & Yang, J. Y. H., 15 Feb 2015, In: International Journal of Cancer. 136, 4, p. 863-874 12 p.

Identification of important regressor groups, subgroups and individuals via regularization methods: application to gut microbiome data
Garcia, T. P., Müller, S., Carroll, R. J. & Walzem, R. L., 15 Mar 2014, In: Bioinformatics. 30, 6, p. 831-837 7 p.

On variational Bayes estimation and variational information criteria for linear regression models
You, C., Ormerod, J. T. & Müller, S., Mar 2014, In: Australian and New Zealand Journal of Statistics. 56, 1, p. 73-87 15 p.

Influence of measures of significance based weights in the weighted Lasso
Garcia, T. P. & Müller, S., 2014, In: Journal of the Indian Society of Agricultural Statistics. 68, 2, p. 131-144 14 p.

Graphical tools for model selection in generalized linear models
Murray, K., Heritier, S. & Müller, S., 10 Nov 2013, In: Statistics in Medicine. 32, 25, p. 4438-4451 14 p.
Revisiting fitting monotone polynomials to data
Murray, K., Müller, S. & Turlach, B. A., Oct 2013, In: Computational Statistics. 28, 5, p. 1989-2005 17 p.

Controlling the local false discovery rate in the adaptive Lasso
Sampson, J. N., Chatterjee, N., Carroll, R. J. & Müller, S., Sept 2013, In: Biostatistics. 14, 4, p. 653-666 14 p.

Structured variable selection with q-values
Garcia, T. P., Müller, S., Carroll, R. J., Dunn, T. N., Thomas, A. P., Adams, S. H., Pillai, S. D. & Walzem, R. L., Sept 2013, In: Biostatistics. 14, 4, p. 695-707 13 p.

Model selection in linear mixed models
Müller, S., Scealy, J. L. & Welsh, A. H., May 2013, In: Statistical Science. 28, 2, p. 135-167 33 p.

A prediction model for viability at the end of the first trimester after a single early pregnancy evaluation
Oates, J., Casikar, I., Campain, A., Müller, S., Yang, J., Reid, S. & Condous, G., Feb 2013, In: Australian and New Zealand Journal of Obstetrics and Gynaecology. 53, 1, p. 51-57 7 p.

Informative measures of significance for constructing intelligent feature weights
Müller, S., Garcia, T. P. & Carroll, R. J., 2013, Proceedings of the 59th World Statistics Congress of the International Statistical Institute, 2013. The Hagu: International Statistical Institute, p. 3833-3838 6 p.

On generalized degrees of freedom and their application in linear mixed model selection
You, C., Müller, S. & Ormerod, J. T., 2013, Proceedings of the 59th World Statistics Congress of the International Statistical Institute, 2013. The Hagu: International Statistical Institute, p. 3851-3856 6 p.

Vertical data integration for melanoma prognosis
Jayawardana, K., Müller, S., Schramm, S-J., Mann, G. J. & Yang, J., 2013, Proceedings of the 59th World Statistics Congress of the International Statistical Institute, 2013. The Hagu: International Statistical Institute, p. 3599-3604 6 p.

The latency distribution of motor evoked potentials in patients with multiple sclerosis
Firmin, L., Müller, S. & Rösler, K. M., Dec 2012, In: Clinial Neurophysiology. 123, 12, p. 2414-2421 8 p.

A robust scale estimator based on pairwise means
Tarr, G., Müller, S. & Weber, N., Mar 2012, In: Journal of Nonparametric Statistics. 24, 1, p. 187-199 13 p.

Exploring multicollinearity using a random matrix theory approach
Feher, K., Whelan, J. & Müller, S., Feb 2012, In: Statistical Applications in Genetics and Molecular Biology. 11, 3, p. 1-33 34 p., 15.

Empirical performance of cross-validation with oracle methods in a genomics context
Martinez, J. G., Carroll, R. J., Müller, S., Sampson, J. N. & Chatterjee, N., Nov 2011, In: American Statistician. 65, 4, p. 223-228 6 p.

Partially smooth tail-index estimation for small samples
Müller, S. & Chhay, H., Sept 2011, In: Computational Statistics. 26, 3, p. 491-505 15 p.

Predation risk and competitive interactions affect foraging of an endangered refuge-dependent herbivore
Tuft, K. D., Crowther, M. S., Connell, K., Müller, S. & Mcarthur, C., Aug 2011, In: Animal Conservation. 14, 4, p. 447-457 11 p.

A method to measure the distribution of latencies of motor evoked potentials in man
Firmin, L., Müller, S. & Rösler, K. M., Jan 2011, In: Clinical Neurophysiology. 122, 1, p. 176-182 7 p.
Assessing modularity using a random matrix theory approach
Feher, K., Whelan, J. & Müller, S., Jan 2011, In: Statistical Applications in Genetics and Molecular Biology. 10, 1, p. 1-34
35 p., 44.

Serious summation
Muller, S., 2011, In: Australian Mathematical Society. Gazette. 38, 1, p. 20 1 p.

On model selection curves
Müller, S. & Welsh, A. H., Aug 2010, In: International Statistical Review. 78, 2, p. 240-256 17 p.

A note on the effect on power of score tests via dimension reduction by penalized regression under the null
Martinez, J. G., Carroll, R. J., Müller, S., Sampson, J. N. & Chatterjee, N., Jan 2010, In: International Journal of Biostatistics. 6, 1, p. 1-12 13 p., 12.

Fair game
Muller, S., 2010, In: Australian Mathematical Society. Gazette. 37, 2, p. 71 1 p.

Smooth tail-index estimation
Müller, S. & Rufibach, K., Sept 2009, In: Journal of Statistical Computation and Simulation. 79, 9, p. 1155-1167 13 p.

Robust model selection in generalized linear models
Müller, S. & Welsh, A. H., Jul 2009, In: Statistica Sinica. 19, 3, p. 1155-1170 16 p.

Partially linear model selection by the bootstrap
Müller, S. & Vial, C., Jun 2009, In: Australian and New Zealand Journal of Statistics. 51, 2, p. 183-200 18 p.

Lucky lottery
Muller, S., 2009, In: Australian Mathematical Society. Gazette. 36, 1, p. 13 1 p.

On the max-domain of attraction of distributions with log-concave densities
Müller, S. & Rufibach, K., 1 Sept 2008, In: Statistics and Probability Letters. 78, 12, p. 1440-1444 5 p.

Robust model selection in generalized linear models
Müller, S. & Welsh, A. H., 2007, In: Oberwolfach Reports. 4, 4, p. 2984-2985 2 p.

smoothtail: smooth estimation of GPD shape parameter
Rufibach, K. & Mueller, S., 2007

Estimating the number of motor units using random sums with independently thinned terms
Müller, S., Conforto, A. B., Z’Graggen, W. J. & Kaelin-Lang, A., Jul 2006, In: Mathematical Biosciences. 202, 1, p. 29-41
13 p.

Weighted least squares estimation of the extreme value index
Hüsler, J., Li, D. & Müller, S., 1 May 2006, In: Statistics and Probability Letters. 76, 9, p. 920-930 11 p.

Smoothed semi-parametric tail index estimation
Müller, S. & Rufibach, K., 2006, University of Bern. 20 p. (Institute of Mathematical Statistics and Actuarial Science - Technical Reports; vol. 58)

Outlier robust model selection in linear regression
Müller, S. & Welsh, A. H., Dec 2005, In: Journal of the American Statistical Association. 100, 472, p. 1297-1310 14 p.
Two-stage support estimation
Müller, S., Dec 2005, In: Australian and New Zealand Journal of Statistics. 47, 4, p. 463-472 10 p.

Iterative estimation of the extreme value index
Müller, S. & Hüsler, J., Jun 2005, In: Methodology and Computing in Applied Probability. 7, 2, p. 139-148 10 p.

A Comparison of human and pseudo-uniform random numbers
Müller, S. & Rufibach, K., 2005, University of Bern. 14 p. (Institute of Mathematical Statistics and Actuarial Science - Technical Reports; vol. 55)

Robust model selection in linear regression models
Müller, S. & Welsh, A. H., 2005, Abstract book: 55th session of the International Statistical Institute (ISI), 5-12 April 2005, Sydney Convention and Exhibition Centre, Sydney, Australia. Sydney: International Statistical Institute, 2 p.

Association between periodontal and peri-implant conditions: a 10-year prospective study
Karoussis, I. K., Müller, S., Salvi, G. E., Heitz-Mayfield, L. J. A., Brägger, U. & Lang, N. P., Feb 2004, In: Clinical Oral Implants Research. 15, 1, p. 1-7 7 p.

Tail estimation based on numbers of near m-extremes
Müller, S., Jun 2003, In: Methodology and Computing in Applied Probability. 5, 2, p. 197-210 14 p.

Iterated tail index estimation
Müller, S., 2003, 54th session of the International Statistical Institute (ISI): proceedings, invited papers, contributed papers: Berlin, 13-20 August 2003. International Statistical Institute, 2 p.

Prolonged unloading of rat soleus muscle causes distinct adaptations of the gene profile
Wittwer, M., Flück, M., Hoppeler, H., Müller, S., Desplanches, D. & Billetter, R., Jun 2002, In: FASEB Journal. 16, 8, p. 884-886 33 p.

Phase II study of capecitabine and oxaliplatin in first-and second-line treatment of advanced or metastatic colorectal cancer
Borner, M. M., Dietrich, D., Stupp, R., Morant, R., Honegger, H., Wernli, M., Herrmann, R., Pestalozzi, B. C., Saletti, P., Hanselmann, S., Müller, S., Brauchli, P., Castiglione-Gertsch, M., Goldhirsch, A. & Roth, A. D., 1 Apr 2002, In: Journal of Clinical Oncology. 20, 7, p. 1759-1766 8 p.

Endpoint, tail index and support estimation in extreme value theory
Müller, S., 2002, (Unpublished) 117 p.

Messung der Müdigkeit bei Krebskranken im Deutschen Sprachraum: Die Entwicklung des Fatigue Assessment Questionnaires
Müller, S., Jun 2001, In: Pflege. 14, 3, p. 161-170 10 p.

Predictive value of radiological criteria for disintegration rates of extracorporeal shock wave lithotripsy
Aeberli, D., Müller, S., Schmutz, R. & Schmid, H-P., Apr 2001, In: Urologia Internationalis. 66, 3, p. 127-130 4 p.

Der Grundwasserspiegel und seine Abhängigkeit vom Niederschlag
Assoulin, D., Dietrich, D., Müller, S. & Schaller, M., 2001, University of Bern. 75 p.

Schlussbericht Betriebszaehlung 1995 (BZ 95): Mehrfach imputierte Umsatzzahlen
Hüsler, J. & Muller, S., 2001, Neuenburg: Bundesamt fur Statistik. 44 p.
Hämoglobin und Müdigkeit bei Tumorpatienten: Untrennbare Zwillinge?
Glaus, A. & Müller, S., 2000, In: Schweizerische Medizinische Wochenschrift. 130, p. 471-477 7 p.

The use of quantitative fabric analysis for a better discrimination of white marbles
Schmid, J., Ambühl, M., Decrouez, D. & Müller, S., 2000, Paria Lithos: latomeia, marmaro kai ergastēria glyptikēs tēs Parou : praktika A’ diethnous Synedriou Archaiologias Parou kai Kykladōn, Paroikia, Paros 2-5 Oktobriou 1997. Schilardi, D. U. & Katsonopoulou, D. (eds.). Athena, p. 569-575 7 p.

A quantitative fabric analysis approach to the discrimination of white marbles
Schmid, J., Ambühl, M., Decrouez, D., Müller, S. & Ramseyer, K., Aug 1999, In: Archaeometry. 41, 2, p. 239-252 14 p.

Analyse der Struktur und der Entwicklung der Bruttolöhne in Vorsorgeeinrichtungen
Wüthrich, M., Müller, S., Kunz, S., Potterat, S. & Kern, O., 1998, In: Mitteilungen der Schweizerischen Aktuarvereinigung. 1, p. 55-82 28 p.

The robustness of the Friedman test
Müller, S., 1998, (Unpublished) 33 p.

Prizes

Commendation Teaching
Muller, Samuel (Recipient), 2015

Elected Member of the International Statistical Institute (ISI)
Muller, Samuel (Recipient), 4 Jun 2021

Faculty Award in Mathematics
Muller, Samuel (Recipient), 1999

Fellow of the American Statistical Association
Muller, Samuel (Recipient), 2019

Special Commendation, Award for Excellence in Graduate Research Supervision
Muller, Samuel (Recipient), 2019

SUPRA Supervisor of the Year Award, Finalist
Muller, Samuel (Recipient), Dec 2021

SUPRA Supervisor of the Year Award, Finalist
Muller, Samuel (Recipient), Nov 2020

Top cited paper award from Wiley for the 2019-2020 period
Muller, Samuel (Recipient), 2021

Top cited paper award from Wiley for the 2021-2022 period
Muller, Samuel (Recipient), 22 Feb 2023

Vice-Chancellor's Awards for Excellence in Outstanding Research - Higher Degree Supervision
Muller, Samuel (Recipient), 2018

Awards
Projects

ARC DP: Building models for complex data
Welsh, A. H. & Muller, S.
1/01/11 → 31/12/14

ARC DP: Dimension reduction and model selection for statistically challenging data
Welsh, A. H., Muller, S., Hui, F. & Ma, Y.
13/04/18 → 12/04/21

ARC DP: Fast flexible feature selection for high dimensional challenging data
Omerod, J. T., Muller, S. & Tarr, G.
1/06/21 → 31/05/24

ARC DP: Prediction, inference and their application to modelling correlated data.
Welsh, A. H. & Muller, S.
1/06/15 → 31/05/17

ARC DP: Prognosis based network-type feature extraction for complex biological data
Yang, J. Y. H., Muller, S., Omerod, J., Yang, P. & Mann, G. J.
1/05/17 → 1/05/20

ARC DP: Vertically integrated statistical modelling in multi-layered omics studies.
Yang, J. Y. H., Muller, S. & Mann, G. J.
1/06/13 → 30/06/17

USYD Led: CRE for Better Outcomes in Arthritis and Autoimmune Diseases
March, L., Thomas, R., Lassere, M., Buchbinder, R., Hill, C., Keen, H. I., Wechalekar, M. D., Munro, J., Figtree, G. A., Schofield, D., Xue, M., El-Omar, E., Muller, S., Bereza-Malcolm, L., Sinnathurai, P., Singh-Grewal, D., Lester, S., Willers, C., Youssef, P., Proudman, S. M. & Worsley, H.
1/12/21 → 30/06/26

Estimating the Number of Tyres in Stockpiles
Muller, S., Beheshti, A., Farhood, H. & Moka, S.
3/10/22 → 9/12/22

MRFF: Cost-Utility Comparison of Down-Titration Strategies for Safer and More Efficient Use of Biologics in Adults with Rheumatoid Arthritis and Psoriatic Arthritis
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Muller, S.
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