Hans-Georg Müller
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Academic Background and Employment. 1982 M.D., U of Heidelberg; 1983 Ph.D. in Mathematics, U of Ulm, Germany; 1986 Habilitation in Biostatistics, U of Marburg. 1984-86 Assistant Prof., 1987-88 Assoc. Prof., Institute of Medical Statistics, U of Erlangen-Nürnberg, Germany; 1988-90 Associate Prof., 1990 Professor, 2007 Distinguished Professor, Department of Statistics, UC Davis.

Awards and Honors. Elected Member, International Statistical Institute, 1989; Fellow, Institute of Mathematical Statistics, 1993; Fellow, American Statistical Association, 1995; Myrto Lefkopoulou Lecture, Harvard U 1995; Highly Cited Researcher (Mathematics), Institute for Scientific Information, 2002; Fellow, American Association for the Advancement of Science, 2006; Medallion Lecture, Institute of Mathematical Statistics, 2007; Distinguished Professor, UC Davis, since 2007; Sobel Lecture, UC Santa Barbara, 2015; Humboldt Senior Research Award, 2017; Noether Senior Scholar Award, 2017; IMS Rietz Lecture and Award, 2022; Nieuwland Lecture, Notre Dame U 2023; Rubin Lecture, Purdue U 2024.

Selected Service.
Professional: Associate Editor/Editorial Board for: Scand. J. Statist., 1997-2003; Sankhyā, 1999-2001; J. Multiv. Anal. 2000-2003; J. Statist. Plann. Inf., 2001-2002; Statistica Sinica, 2002-2005; J. Royal Statist. Soc. Series B, 2002-2006; Biometrics, 2012-2014; Statistics and Econometrics, 2015-current; J. American Statistical Association, 2002-current; Annals of Statistics, 2003-current; Biometrika 2009-current; Canadian J. Statistics, 2019-current; Co-Editor, Statistica Sinica, 2017-2020; Vice-President (1999-2000) and President (2000-2001) of the Sacramento Chapter of the ASA; Co-Leader of Program Year on Analysis of Object Data, 2010-2011, SAMSI; IMS Program Chair, JSM 2012; Chair, Special Lectures Committee of the IMS, 2012-13 (member 2010-12); Chair-Elect and Chair, Nonparametrics Section of the ASA, 2014, 2015.
University: Founding chair of the Graduate Group in Biostatistics at UC Davis, 2001-2006; Chair of the Department of Statistics and Graduate Program in Statistics, UC Davis, 2012-2015; Member (2015-16) and Chair (2016-current), Senate Committee on Elections, Rules and Jurisdiction.

Research. Theory, Methods and Applications of Statistics, emphasizing Nonparametric Statistics; Functional Data Analysis; Longitudinal Data Analysis; Statistics for Stochastic Processes; Metric Statistics, including Data on Manifolds and Random Objects in Metric Spaces; and Applications in Biodemography and Demography, Genetics, Brain Imaging, Medicine and Biology. Further details on 300+ publications here.

Selected recent papers

Lin, Z., Müller, H.G., Yao, F. (2018). Mixture Inner Product Spaces and their application to functional data analysis. *Annals of Statistics* **46**, 370–400.

Dai, X., Müller, H.G. (2018). Principal component analysis for functional data on Riemannian manifolds and spheres. *Annals of Statistics* **46**, 3334–3361.

Dawson, M., Müller, H.G. (2018). Dynamic modeling of conditional quantile trajectories, with application to longitudinal snippet data. *J. American Statistical Association* **113**, 1612–1624.

Petersen, A., Müller, H.G. (2019). Fréchet regression for random objects with Euclidean predictors. *Annals of Statistics* **47**, 691-719.

Petersen, A., Deoni, S., Müller, H.G. (2019). Fréchet estimation of time-varying covariance matrices from sparse data, with application to the regional co-evolution of myelination in the developing brain. *Annals of Applied Statistics* **13**, 393–419.

Dai, X., Hadjipantelis, P., Wang, J.L., Deoni, S., Müller, H.G. (2019). Longitudinal associations between white matter maturation and cognitive development across early childhood. *Human Brain Mapping* **40**, 4130–4145.

Dubey, P., Müller, H.G. (2019). Fréchet analysis of variance for random objects. *Biometrika* **106**, 803-821.

Han, K., Müller, H.G., Park, B. (2020). Additive functional regression for densities as responses. *J. American Statistical Association* **115**, 997–1010.

Lopes, M., Lin, Z., Müller, H.G. (2020). Bootstrapping max statistics in high dimensions: Near-parametric rates under weak variance decay and application to functional and multinomial data. *Annals of Statistics* **48**, 1214–1229.

Dubey, P., Müller, H.G. (2020). Functional models for time-varying random objects. *J. Royal Statistical Society B* **82**, 275-327 (Discussion Paper, Read at the Royal Statistical Society on 16 October 2019).

Carroll, C., Bhattacharjee, S., Chen, Y., Dubey, P., Fan, J. Gajardo, Á., Zhou, X., Müller, H.G., Wang, J.L. (2020). Time dynamics of COVID-19. *Scientific Reports* **10**, 21040

Dubey, P., Müller, H.G. (2020). Fréchet change-point detection. *Annals of Statistics* **48**, 3312–3335.

Chen, Y., Dubey, P., , Müller, H.G., Bruchhage, M., Wang, J.L., Deoni, S. (2021). Modeling sparse longitudinal data in early neurodevelopment. *NeuroImage* **237**, 118079

Dai, X., Lin, Z., Müller, H.G. (2021). Modeling sparse longitudinal data on Riemannian manifolds. *Biometrics* **77**, 1328–1341.

Lin, Z., Müller, H.G. (2021). Total variation regularized Fréchet regression for metric-space valued data. *Annals of Statistics* **49**, 3510-3533.

Chen, Y., Lin, Z., Müller, H.G. (2023). Wasserstein regression. *J. American Statistical Association* **118**, 869–882.

Tucker, D.C., Wu, Y., Müller, H.G. (2023). Variable selection for global Fréchet regression. *J. American Statistical Association* **118**, 1023–1037.

Zhu, C., Müller, H.G. (2023). Autoregressive optimal transport models. *J. Royal Statistical Society B* **85**, 1012–1033.

Bhattacharjee, S., Müller, H.G. (2023). Single index Fréchet regression. *Annals of Statistics* **51**, 1770–1798.

Zhu, C., Müller, H.G. (2024). Spherical autoregressive models, with application to distributional and compositional time series. *J. Econometrics* **239**, 105389.

Chen, Y., Lin, S.C., Zhou, Y., Carmichael, O., Müller, H.G., Wang, J.L. (2024). Gradient synchronization for multivariate functional data, with application to brain connectivity. *J. Royal Statistical Society B*

Dubey, P., Chen, Y., Müller, H.G. (2024). Metric Statistics: Exploration and inference for random objects with distance profiles. *Annals of Statistics* **52**, 757 - 792.