

Timo Törmäkangas

Degree

Doctorate in Philosophy (Statistics), Department of Mathematics and Statistics, University of Jyväskylä.

Current employment

Postdoctoral researcher at Gerontology Research Center, University of Jyväskylä.

Research interests

Broad interest in methodology for analyzes of biomedical data of various types (mainly longitudinal, aging-related). Programming for stochastic analysis in various platforms including C++, JAVA, R, SAS, Stata and SPSS.

Most important earlier employment

Employed in various posts involving methodological development and statistical analysis within the Gerontological Research Center and its predecessor institutions in the University of Jyväskylä since 1999. Prior experience in psychometrics of proficiency testing in National Certificates of Language Proficiency, Center for Applied Language Studies, University of Jyväskylä.

Other selected affiliations and expert positions

Lecturer in annual courses of basic quantitative research methodology.

Awards and honors

Study of the year in Sports Medicine, 2006. 2nd place. Organisation: Finnish Society of Sport Sciences. Scandinavian Congress of Medicine and Science in Sports (Vierumäki 9.11.2006).

Colleague of year 2012 in the Gerontology Research Center. Awarded for significant methodological and analytical expertise in contribution to journal articles within 2006-2013.

Selected publications

Törmäkangas, T.M., Heikkinen, R-L., Ilmarinen, J (2004). Change and stability in measuring social functioning among aging Finnish municipal workers in two repeated measurements. *Hallym International Journal of Aging*, 5(2): 159-182.

Törmäkangas, K. & Törmäkangas, T. (2009). *Osioanalyysi testien arvioinnissa*. Jyväskylä, Finland: Finnish Institute for Educational Research /University of Jyväskylä. (Item Analysis in Test Evaluation).

Törmäkangas T. (2012). Simulation Study on the Properties of Quantitative Trait Model Estimation in Twin Study Design of Normally-Distributed and Discrete Event-Time Phenotype Variables (Doctoral Dissertation). University of Jyväskylä: Jyväskylä, Finland.

von Bonsdorff MB, von Bonsdorff M, Kulmala J, Törmäkangas T, Seitsamo J, Leino-Arjas P, Nygård CH, Ilmarinen J, Rantanen T. (2013). Job strain in the public sector and hospital in-

patient care use in old age: a 28-year prospective follow-up. *Age and Ageing*: doi: 10.1093/ageing/aft192.

Salpakoski A, Törmäkangas T, Edgren J, Sihvonen S, Pekkonen M, Heinonen A, Pesola M, Kallinen M, Rantanen T, Sipilä S. 2014. Walking Recovery after Hip Fracture - A Prospective Follow-Up Study among Community-Dwelling over 60-Years Old Men and Women. *BioMed Research International*, <http://dx.doi.org/10.1155/2014/289549>.

Lu C, Ivaska KK, Alen M, Wang Q, Törmäkangas T, Xu L, Wiklund P, Mikkola TM, Pekkala S, Tian H, Väänänen HK, Cheng S (2012). Serum Osteocalcin Is Not Associated with Glucose but Is Inversely Associated with Leptin across Generations of Nondiabetic Women. *J Clin Endocrinol Metab.* 97(11), 4106-4014.