

Markus Matilainen

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Recent and Important Publications

Theoretical

- 2021 Nordhausen K et al. *Dimension Reduction for Time Series in a BSS Context Using R*, J. Stat. Softw., 98(15), 1–30. [Link](#)
- 2021 Pan Y et al. *A review of second-order blind identification methods*, WIREs Comput. Stat., e1550. [Link](#)

Applied

- 2023 Laaksonen S et al. *Early prognosticators of later TSPO-PET-measurable microglial activation in multiple sclerosis*, Mult. Scler. Relat. Disord., 75, 104755. [Link](#)
- 2022 Misin O et al. *Innate Immune Cell-Related Pathology in the Thalamus Signals a Risk for Disability Progression in Multiple Sclerosis*, Neurol.: Neuroimmunol. Neuroinflammation, 9(4), e1182. [Link](#)
- 2021 Nylund M et al. *Phenotyping of multiple sclerosis lesions according to innate immune cell activation using 18 kDa translocator protein-PET*, Brain commun., 22, 4(1):fcab301. [Link](#)
- 2020 Sucksdorff M et al. *Brain TSPO-PET predicts later disease progression independent of relapses in multiple sclerosis*, Brain, 143(11), 3318–3330. [Link](#)
- 2014 K. Mäkelä et al. *Failure rate of cemented and uncemented total hip replacement: a register study of combined Nordic database of four nations*, BMJ, 348. [Link](#)

[Full list here](#)

Employment

- 2018, Feb - **Postdoctoral researcher**
Turku PET Centre (including affiliations with University of Turku, Turku University Hospital and Åbo Akademi)
Senior/Special researcher, biostatistician, modeller
- 2016, Sep - Dec **University teacher**
University of Turku, Department of Mathematics and Statistics
Lecturing: Statistical Inference I, II
- Feb 2012 - **BCB Medical & Hospital District of Southwest Finland (Output work)**
Survival analyses of hip and knee replacements with SAS to several articles.

Education

- 2018 Doctor of Philosophy, *University of Turku* Statistics
- 2013 Master of Social Sciences, *University of Turku* Statistics (Biostatistics)
- 2011 Master of Science, *University of Turku* Applied mathematics

Recent talks

- Feb & Apr 2022 *A brief introduction to positron emission tomography analysis*. Seminar presentation in University of Jyväskylä & University of Turku
- Dec 2018 *Dimension reduction for time series in a BSS context using*. Conference presentation in CMStatistics 2018

Group memberships

- CMStatistics team *TSMC: Times Series Modelling and Computation*
- *Finnish Society of Biostatistics*
- *ISTU - International Students of Turku Universities*
- *Statistika - The alumni organization of statisticians in Turku*