

Scientific Publications (Keith Humphreys) – list of all original works:

Statistical methodology/Epidemiology/Population genetics/Image analysis:

Strandberg R, Czene K, Hall P, **Humphreys K.** (2023) Novel predictions of breast cancer risk in mammography screening cohorts. *Statistics in Medicine*. Epub ahead of print: <https://doi.org/10.1002/sim.9834>.

Illipse M, Czene K, Hall P, **Humphreys K.** (2023) Studying association between longitudinal mammographic density measurements and breast cancer risk: a joint modelling approach. *Breast Cancer Research*. 26:64.

Mao X, He W, Eriksson M, Lindström L, Holowko N, Lagercrantz S, Hammarström M, Grassmann F, **Humphreys K**, Easton D, Hall P, and Czene K. (2023) Prediction of breast cancer incidence in sisters of index women attending screening. *JNCI: Journal of the National Cancer Institute*. Ahead of print: <https://doi.org/10.1093/jnci/djad101>.

Strandberg R, Abrahamsson L, Isheden G, **Humphreys K.** (2023) Tumour Growth Models of Breast Cancer for Evaluating Early Detection – a Summary and a Simulation Study. *Cancers*. 15, 912.

Xinhe M, He W, **Humphreys K**, Eriksson M, Holowko N, Strand F, Hall P, Czene K. (2023) Factors associated with false-positive recalls in mammography screening. *J Natl Compr Canc Netw*. 21: 143-152.

Christoffersen B, Mahjani B, Clements M, Kjellström H, **Humphreys K.** (2023) Quasi-Monte Carlo Methods for Binary Event Models with Complex Family Data. *Journal of Computational and Graphical Statistics*. DOI: 10.1080/10618600.2022.2151454.

Isheden G, and **Humphreys K.** (2022) A unifying framework^[1] for continuous tumour growth modelling of breast cancer screening data. *Mathematical Biosciences*. 353: 108897.

Gasparini A and **Humphreys K.** (2022) A Natural History and Copula based Joint Model for Regional and Distant Breast Cancer Metastasis. *Statistical Methods in Medical Research*. 31: 2415-2430.

Gasparini A and **Humphreys K** (2022) Estimating Latent, Dynamic Processes of Breast Cancer Tumour Growth and Distant Metastatic Spread from Mammography Screening Data. *Statistical Methods in Medical Research*. 31: 862-881.

Strandberg R, Czene K, Eriksson M, Hall P, **Humphreys K.** (2022) Estimating Distributions of Breast Cancer Onset and Growth in a Swedish Mammography Screening Cohort. *Cancer Epi. Biomarkers Prev*. 31: 569-577.

Syriopoulou E, Gasparini A, **Humphreys K**, Andersson TML (2022) Assessing lead time bias due to mammography screening in estimates of loss in life expectancy. *Breast Cancer Res.* 24: 15.

Isheden G, Grassman F, Czene K, **Humphreys K**. (2021) Lymph node metastases in breast cancer: investigating associations with tumour characteristics, molecular subtypes and polygenic risk score using a continuous growth model. *Int. J. Cancer.* 149: 1348-1357.

Isheden G, Czene K, **Humphreys K**. (2021) Random effects models of lymph node metastases in breast cancer: quantifying the roles of covariates and screening using a continuous growth model. *Biometrics.* 78: 376-387.

Ugalde-Morales E, Grassmann F, **Humphreys K**, Li J, Eriksson M, Tobin NP, Lindström LS, Vallon-Christersson J, Borg Å, Hall P and Czene K. (2021) Interval breast cancer is associated with interferon immune response *Eur. J. Cancer.* 162: 194-205.

Christoffersen B, Clements M, **Humphreys K**, Kjellström H. (2021) Asymptotically Exact and Fast Gaussian Copula Models for Imputation of Mixed Data Types. *Proceedings of The 13th Asian Conference on Machine Learning*, PMLR 157:870-885.

Tan PS, Alsheh Ali, M, Eriksson M, Hall P, **Humphreys K**, Czene K. (2020) Mammography features for early markers of aggressive breast cancer subtypes and tumor characteristics: a population-based cohort study. *Int. J. Cancer.* 148, 1351-59.

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Abrahamsson L, Alsheh Ali M, Czene K, Isheden G, Hall P, **Humphreys K**. (2020) Random effects Tumour Growth Models for Identifying Image Markers of Mammography Screening Sensitivity. *Epidemiologic Methods.* 9(1): 20190022

Strandberg R and **Humphreys K** (2019) Statistical models of tumour onset and growth for modern breast cancer screening cohorts. *Mathematical Biosciences.* 318: 108270

Isheden G and **Humphreys K**. (2019) Modeling breast cancer tumour growth for a stable disease population. *Statistical Methods in Medical Research.* 28: 681-702.

Abrahamsson L, Isheden G, Czene K, **Humphreys K**. (2019) Continuous tumour growth models, lead time estimation and length bias in breast cancer screening studies. *Statistical Methods in Medical Research.* 29: 374-395.

Isheden G, Abrahamsson L, Andersson TM-L, Czene K, **Humphreys K**. (2019) Joint

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Alsheh Ali M, Eriksson M, Czene K, Hall P, **Humphreys K**. (2019) Detection of Potential Microcalcification Clusters Using Multi Vendor For-presentation Digital Mammograms for Short-term Breast Cancer Risk Estimation. *Medical Physics*. 46:4 1938-1946.

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Strand F, Azavedo E, Hellgren R, **Humphreys K**, Eriksson M, Shepherd J, Hall P, Czene K. Localized mammographic density is associated with interval cancer and large breast cancer: a nested case-control study. *Breast Cancer Research*, 21(1):8.

Li J, **Humphreys K**, Ho P-J, Eriksson M, Darai-Ramqvist E, Lindström L, Hall P, Czene K. Genetic, reproductive, lifestyle risk factors for fibroadenoma and breast cancer. Submitted to *J. Nat. Cancer Inst. Cancer Spectrum*. 2(3): pky051.

Eriksson L, Bergh J, **Humphreys K**, Wärnberg F, Törnberg S, Czene K. (2018) Time from breast cancer diagnosis to therapeutic surgery and breast cancer prognosis: a population-based cohort study. *Int. J. Cancer*. 2018 Mar 31. doi: 10.1002/ijc.31411.

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Brand J, **Humphreys K**, Li J, Karlsson R, Hall P, Czene K. (2018) Common genetic variation and novel loci associated with volumetric mammographic density. *Breast Cancer Research*. 20(1):30.

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breast cancer; results using a joint longitudinal-survival modeling approach. *Am. J. Epidemiology*. 186: 1065-1073.

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Strand F, **Humphreys K**, Eriksson M, Li J, Andersson TML, Azavedo E, Shepherd J, Hall P, Czene P. (2017) Longitudinal fluctuations in mammographic percent density differentiates between interval and screen-detected breast cancer. *Int. J. Cancer*. 140: 34-40.

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