Johannes Malm

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MSc in Economics, Lund University

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PROFILE

Economist by training and PhD candidate in gerontology, working on how structured daily observation of behavioral and psychological symptoms of dementia (BPSD) can become a lasting part of nursing home care. My thesis develops, tests and evaluates Daily-BPSD, a digital tool for individualized daily symptom monitoring, combining registry data and statistical modelling with interviews and qualitative analysis. Alongside research I co-founded Mahost AB (Misu Labs), which builds MISU, a system for daily data collection in municipal care, in use since 2018 and the technical basis of Daily-BPSD. Going forward, I want to bring my training in economics back to the centre of my research. New digital tools are often introduced in health and social care without a clear picture of what they cost and what they return, and health economics offers the methods to answer that. My aim is to combine health economic evaluation with the development and evaluation of digital tools in health and care, so that decisions about which tools to introduce, and how, can rest on evidence of both effects and costs.

EDUCATION

Period	Degree or programme	Institution
2021–2027	**PhD in Health and Care Sciences** (ongoing) Thesis on daily monitoring of BPSD in nursing homes, four studies. Final seminar January 2027, public defence planned 11 June 2027. Supervisors: Ingemar Kåreholt (main), Charlotta Nilsen, Thérèse Bielsten, Elzana Odzakovic.	Institute of Gerontology, School of Health and Welfare, Jönköping University
2015	**Master of Science in Economics** Political science, statistics, econometrics and time series analysis; 307.5 ECTS credits in total.	Lund University
1999–2000	**Exchange student**, one academic year	Oregon-Davis High School, USA

EXPERIENCE

2021– **PhD candidate** · Institute of Gerontology, Jönköping University
Doctoral project on Daily-BPSD in four studies: conditions for implementation, feasibility in a pilot, symptom patterns in more than one million daily registrations from six nursing homes, and adoption and use over time. Three studies published as first author. Data collection with municipalities, registry-based analysis, interviews and research circles, and teaching in quantitative methods at advanced level.

2017– **Co-founder, Mahost AB (Misu Labs)**
Founder and CEO 2017–2021, thereafter data analyst and web developer alongside doctoral studies. Health data analytics and development of MISU, a system for daily data collection and follow-up in municipal health and social care, in use since 2018.

2026 **Data manager (20 %), SNAC-Blekinge** · Department of Health, Blekinge Institute of Technology
Digitalization of data collection in the SNAC-Blekinge cohort study.

2015–2017 **Controller and analyst** · City of Helsingborg

2013–2015 **Unit manager and policy analyst** · Vaggeryd Municipality

PEER-REVIEWED PUBLICATIONS

1. **Malm J**, Nilsen C, Kåreholt I. Daily patterns and prevalence of behavioral and psychological symptoms of dementia in Swedish nursing homes. *BMC Geriatrics*. 2026;26:1415. doi:10.1186/s12877-026-08537-w
2. **Malm J**, Bielsten T, Nilsen C, Odzakovic E, Kåreholt I. Daily monitoring of behavioral and psychological symptoms of dementia in residential care: mixed methods pilot study. *JMIR Aging*. 2026;9:e98024. doi:10.2196/98024

3. **Malm J**, Odzakovic E, Kåreholt I, Fristedt S, Bielsten T. Exploring conditions for implementing daily monitoring of Behavioral and Psychological Symptoms of Dementia (BPSD) in dementia care: insights from a participatory design study. *BMC Geriatrics*. 2026;26:457. doi:10.1186/s12877-026-07321-0

MANUSCRIPTS

1. Technophilia in later life: longitudinal associations with digital engagement among older adults in Sweden. Under review, JMIR Aging.
2. **Malm J**, Bielsten T, Odzakovic E, Nilsen C, Kåreholt I. Implementing high-frequency symptom monitoring in dementia care: a mixed-methods study of adoption and use in nursing homes. In preparation, Journal of Medical Internet Research.
3. Early warning for behavioral and psychological symptom escalation in dementia: machine learning prediction from shift-level clinical registrations. In preparation.

CONFERENCE CONTRIBUTIONS

2026	23rd IAGG World Congress of Gerontology and Geriatrics, Amsterdam, the Netherlands · poster
2023	GSA Annual Scientific Meeting, Tampa, Florida, USA · poster
2023	Nära vård (Local Health Care), Jönköping University, Sweden · poster
2022	Swetaly, Swedish and Italian Perspectives on Ageing, Gothenburg, Sweden · poster

TEACHING

2025	Quantitative Research Methods, advanced level · Jönköping University
2025	Co-supervision of a bachelor's thesis · Jönköping University

DOCTORAL COURSES

Course	Year
Theoretical Deepening in Health and Care Sciences from an Interdisciplinary Perspective	2026
Challenges in Research on Health and Welfare Technology: From User Needs to Sustainable Implementation	2026
Theory of Science	2025
Research Strategies and Design with Focus on Quantitative Methods	2025
Qualitative Methods	2024
Academic Writing	2023
Statistics IV: Generalized Linear Models	2025
Statistics III: Regression Analysis (Swedish University of Agricultural Sciences)	2024
Statistical Methods II: Experimental Design and ANOVA	2023
Statistical Methods I	2022

METHODS AND SKILLS

Quantitative	Longitudinal and intensive repeated-measures data; registry data; regression and generalized linear models, multilevel analysis, time series analysis and econometrics; descriptive epidemiology (prevalence, co-occurrence, variation between units and over time)
Qualitative	Individual and group interviews, research circles with staff and relatives, participatory design, thematic analysis; mixed-methods designs that combine log data with interviews
Digital tools	Design and development of digital tools for structured data collection in health and social care, from user needs to use in everyday care
Tools	R, Python, SQL, Git, LaTeX; development of web applications
Other	Familiarity with machine learning for clinical prediction, through an ongoing collaborative project on early warning of BPSD escalation
Languages	Swedish (native), English (fluent)

POSITIONS OF TRUST

2015–2017	Board member, Malmö Beach Volleyball Club
2010–2013	Board member, Jönköping Squash Club