



Randi Hammervold

Current position (Main employer):

Associate professor in statistics.

Teaching areas:

Statistics, Quantitative Methods, Econometrics, Multivariate Statistical Analysis and Structural Equation Modelling SEM.

Teaching and/or course coordinating responsibilities 2023/2024 at NTNU-ØK (including supervision):

Met 500 Applied Multivariate Analysis and Structural Equation Modeling (SEM)
Met 420 Quantitative Research Methods and Econometrics.

I supervise both master's students and PhD students regarding method questions, continuously.

Research Interests:

Statistics, Econometrics, Multivariate Statistical Analysis, and Structural Equation Modeling SEM.

I have great complexity in my position, with teaching, research, management tasks and guidance.

Google Scholar:	Since 2019	
Sitations:	695	267
h-indeks	14	11
i10-indeks	16	12

I have 20 scientific international articles in peer reviewed journals, of which 11 in the period 2011–2021. Has also written two textbooks regarding multivariate analyzes using the software Stata and SPSS.

I mention journals: Economies, Journal of European Real Estate Research, Education Inquiry, International Journal of Older People Nursing, Journal of Adult Protection, International Business Review og Quality and Quantity.

My research projects now is: SEM - Structural Equation Modelling. Estimation and testing of models using different software. Advantages and disadvantages, and different model assumptions."

SEM with LISREL, EQS and Mplus is widely used in social science research. More recent programs are the SEM package in STATA, R, and Python. The last two are available free of charge and are used more and more in research and teaching (NHH, BI and NTNU).

Education (please include pedagogical training. E.g. PEDUP at NTNU):

Degree (PhD, MSc, BA etc)	Awarding Institutuon	Year	Subject area (e.g, Finance)	Title of thesis
Doctor Scientiarum i Statistikk.	NTNU. Faculty of Physics, Computer Science and Mathematics.	1999	Statistics	<i>"Properties of goodness of fit statistics for structural equation models."</i> Dr. Scient. Thesis. Department of Mathematical Sciences. NTNU. 1999.
Pedagogisk seminar	Universitetet i Trondheim. Den allmennvitenskapelige høgskolen. AVH.	1989	Mathematics and Social Economics	Practical teaching work in mathematics and social economics.
Candidata Scientiarum.	University in Oslo. Department of mathematics.ete I Oslo.	1986	Statistics	Utvikling av modell og statistisk analyse av aktivitet ved sengeavdelinger, medisinske serviceavdelinger og poliklinikker ved sykehus.
Cand.Mag.	Universitetet I Trondheim. Norges lærerhøgskole.	1982	Mathematics, statistics, and social economics.	

Professional experience (previous and ongoing)¹:

Position/title	Employer/place	Periode	Responsibilities/tasks (Short description)
Researcher	SINTEF, Norsk institutt for sykehusforskning	1982-1990	Worked with research projects. Project Manager. Multivariate analyses and Epidemiology.
Engaged as a lecturer in mathematics and statistics.	Universitetet i Trondheim, AVH.	1983-1987	Teaching mathematics and statistics.
Amanuensis	Trondheim økonomiske Høgskole	1990-1999	Teaching mathematics and statistics.
Associate professor	Trondheim økonomiske Høgskole	1999-	Teaching mathematics and statistics, econometrics, multivariate statistical analysis and structural equation modeling.
Associate professor	BI, Trondheim.	2008-2010	Teaching econometrics.
Leader of the subject group for method and social economics at the NTNU Business School	NTNU Handelshøyskolen	2013-	
Member of the subject group for quantitative methods in economic administrative education. NRØA.	Nasjonalt råd for økonomisk administrativ utdanning. NRØA	2007-2012	
Leader in the subject group for quantitative methods in economic administrative education.	Nasjonalt råd for økonomisk administrativ utdanning. NRØA	2012-2017	

PhD Supervision:

Informally, I have supervised several PhD students at NTNU, within quantitative methods and Structural Equation Modeling.

PhD students at NTNU can also follow my course in multivariate analyses and structural equation modelling SEM, Met500.

¹ Ongoing experiences might include adjunct professor at other institutions, consultancy work, board service etc.

Scientific committees (e.g. PhD assessment committees, expert committees):

Member of an expert commission for assessment of associate professor/assistant professor in economics/mathematics at the Western Norway University of Applied Sciences. 2019.

Leader of an expert commission for assessment of positions within statistics and quantitative methods, Høgskolen i Hedmark. 2016

Leader of an expert commission for assessment of positions of associate professor in statistics, Høgskolen i Sørøst-Norge HSN. 2016

Leader of an expert commission for assessment of positions of associate professor in statistics and quantitative methods. Handelshøyskolen I Trondheim. HHiT. 2014.

Intellectual contributions 2019-2023²

ARTICLES IN PEER REVIEWED JOURNALS:

Opstad, Hammervold, Idsø. The Influence of Income and Currency Changes on Tourist Inflow to Norwegian Campsites: The Case of Swedish and German Visitors. Economies. 2021

Dalland, Hammervold, Karlsen, Oust, Sønstebø. "Aggressive bidding strategies in real estate auctions – a structural equation modelling (SEM) approach", Journal of European Real Estate Research. 2021.

SCHOLARLY BOOKS AND CHAPTERS IN SCHOLARLY BOOKS:

Randi Hammervold. "Multivariate analyser med STATA." Fagbokforlaget 2020

TEXTBOOKS, PROFESSIONAL BOOKS ETC (NOT FICTION): **CONFERENCE LECTURES AND ACADEMIC PRESENTATIONS:**

Randi Hammervold. "Multivariate analyser med STATA." Fagbokforlaget 2020

Statistics seminar 2023. Department of Mathematical Sciences. NTNU. "A brief introduction to Structural Equation Modelling. Estimation and testing of models using different software. Does choice of software matter?"

² List all your intellectual contributions in this period. Any contribution that fall into one of the [categories of Cristin](#) should be listed. Other intellectual contributions may also be listed.

REPORTS, CASE DEVELOPMENT, TEACHING MATERIAL ETC.:

Various booklets with collections of exercises in mathematics and statistics.

Lecture notes in econometrics and structural equation modeling, research based on empirical economic data. This is used in teaching, exercises and semester assignments where the students work independently.

In recent years, I have also recorded online teaching regarding statistical theory in econometrics and Structural Equation Modeling SEM. This was partly used for flipped classrooms.

DISSEMINATION ACTIVITIES OUTSIDE ACADEMIA³:

REVIEWING ACTIVITIES (INCL. EDITORIAL):

OTHER INTELLECTUAL CONTRIBUTIONS⁴:

Successful Grant applications and other awards:

Administrative roles related to your academic position⁵:

Leader of the subject group for method and social economics, at the NTNU Business School .

Member of the educational forum at the NTNU Business School.

³ Presentations for professional organizations/bodies, popular science presentations/publications, chronicles, interviews, encyclopedia articles etc.

⁴ Other contributions to demonstrate your sustained engagement and maintenance of your academic currency

⁵ E.g. Program manager, development taskforces, working groups, serving on professional boards/bodies, serving in evaluation committees, hiring committees etc

Professional Development in pedagogy and didactics:

Pedagogical seminar from the University of Trondheim AVH (1989). Practical teaching work in mathematics and social economics.

In the last 35 years, I have had a lot of teaching in mathematics, statistics, econometrics, multivariate analysis and structural equation modeling SEM.

In the last 35 years, I have had a lot of teaching in mathematics, statistics, econometrics, multivariate analysis and structural equation modeling SEM. I have done a lot of pedagogical work with teaching and exercises:

- Teaching both physically and digitally with online teaching in quantitative methods, econometrics, multivariate analyzes and structural equation modeling.
- Applied exercises in digital practice rooms in Teams.
- Practicing flipped classroom.
- Semester assignments where students work during semesters and submit a report before the exam.
- Prepares and implements economic cases for teaching and exam papers.