

Erik Marsja | CV | Teaching

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Pedagogical Courses

I have taken three courses in university pedagogy of total of 8 ECTS (roughly 6 weeks, full time studying):

- Undervisning på Högskolan (Teaching at the University), Umeå University
- Teori om Lärande (Theory of Learning), Umeå University
- Problembaserat Lärande (Problem-based learning), Linköping University

Teaching

Teaching has been primarily in:

- Research Methods & Basic Statistics
- Cognitive Psychology (attention, perception, & working memory)
- Applied Cognitive Psychology (attention and perception)

The majority of lectures, seminars, lab demonstrations, supervision of group projects (both involving empirical and applied projects) and co-supervision of thesis' have been given at the Department of Psychology, Umeå University, Sweden (2014 - 2017). In addition to the previously mentioned teaching types, I have also held workshops, and supervised projects and thesis' at the Department of Behavioral Science and Learning, and the Department of Computer Science and Information, Linköping University (2019 -). Teaching have been carried out digitally (e.g., through Zoom, using online learning platforms such as LISAM at Linköping university) and physically (e.g., live lectures). I have experience of digital examination such as quizzes, hand-ins in learning platforms but also traditional examination forms.

At Umeå University and Linköping University, I have so far taught 950 and 662 clock hours, respectively (total = 1612 hours). Topics of the supervised projects and thesis' has all been in cognitive science (i.e., human-computer interaction, psychology, and Artificial Intelligence/Machine Learning). For an overview, of my teaching responsibilities see Table 1.

Supervision of Bachelor Students (Undergraduate Level)

Mattila, M. (2021). Department of Computer and Information Science, Linköping University. "Synthetic Image Generation Using GANs: Generating Class Specific Images of Bacterial Growth." Bachelor's Thesis in Cognitive Science (18 ECTS). *Main supervisor*

Bridal, O. (2021). Department of Computer and Information Science, Linköping University. "Named-entity recognition with BERT for anonymization of medical records." Bachelor's Thesis in Cognitive Science (18 ECTS). *Main supervisor*

Rombo, A. (2020). Department of Computer and Information Science, Linköping University. "Self-determination perceived by users in support services pursuant to LSS - An analysis on a municipal level." Bachelor's Thesis in Cognitive Science (18 ECTS). *Main supervisor*

Lindberg, F. (2020). Department of Computer and Information Science, Linköping University. “Hur ungas attityder kring hörselnedsättningar orsakade av fritidsbuller påverkas av deras koppling till sitt framtida jag.” (How young people’s attitudes to hearing impairments caused by leisure noise are affected by their connection to their future selves.) Bachelor’s Thesis in Cognitive Science (18 ECTS). *Main supervisor*

Dahlgren, S. (2020). Department of Computer and Information Science, Linköping University. “The association between cognition and speech-in-noise perception - Investigating the link between speech-in-noise perception and fluid intelligence in people with and without hearing loss.” Bachelor’s Thesis in Cognitive Science (18 ECTS). *Main supervisor*

Supervision of Master Students (Graduate Level)

Carlbring, J. (2020) Department of Computer and Information Science, Linköping University. “Inclusive Design for Mobile Devices with WCAG and Attentional Resources in Mind.” Master’s Thesis in Cognitive Science (30 ECTS). *Main supervisor*

Ma, L. (2015). Department of Psychology, Umeå University. “Cross-Modal Matching of Distractibility in Auditory and Tactile Stimuli”. Master’s Thesis in Cognitive Science (15 ECTS). *Co-supervisor*

Blide, M. (2014). Department of Psychology, Umeå University. "Att orka lämna ett misshandelsförhållande: Anknytningens beydelse (To cope leaving abusive relationships: The importance of attachment). Master’s Thesis in Clinical Psychology (30 ECTS). *Co-supervisor*

Teaching Workshops

Oct 2018 **R Workshop "Step-by-Step"**

Department of Psychology, Umeå University.

An introduction to R statistical programming language - presented to senior researchers with a focus on basic programming and the R environment.

June 2021 **SIDR Summer School 2021**

Division of Disability Research, Linköping University.

Assisting Prof. Danielsson in teaching advanced statistics in the R programming language.

Additional skills

- Extensive knowledge in statistical software such as SPSS, JASP, and R statistical programming environment
- Strong scripting skills in Python (v2.7.x & v3.x.x) and R
- Substantial skills in programming and performing experiments using both E-prime and Python (i.e., PsychoPy, OpenSesame, & Expyriment)
- Good skills in Microsoft Word and Excel
- Basic programming skills in Visual Basic, E-basic (E-prime), MATLAB, Bash, JavaScript, and PHP
- Basic skills in Markdown (e.g., RMarkdown) and L^AT_EX

Table 1: An overview of my teaching. Total of clock hours: 1612 , UG = Undergraduate, G = Graduate, VT = Spring term, HT = autumn term

Period(s)	Subject	Type	Clock Hours	Course/Program	Level	Language	University
VT 2014	Scientific communication, research methods, research ethics	Lectures, seminars, supervision	60	Psychological test and research methods/Statistical and Empirical Methods, the Clinical Psychologist program/the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University
VT, HT 2014	Cognitive Psychology	Supervision of projects	40	Introduction to Psychology, the Clinical Psychologist Program	UG	Swe	Umeå University
HT 2014	Clinical Psychology	Co-supervision of thesis project	20	Master Thesis in Psychology, 30 ECTS, the Clinical Psychologist Program	G	Eng	Umeå University
	Applied Cognitive Science	Supervision of projects	40	Project in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University
VT 2015	Cognitive Psychology	Supervision of projects	24	Introduction to Psychology, the Clinical Psychologist Program	UG	Swe	Umeå University
	Cognitive Psychology	Lectures, seminars, supervision of projects	20	Basic psychology and sport psychology, the Coaching Program	UG	Swe	Umeå University

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Period(s)	Subject	Type	Clock Hours	Course/Program	Level	Language	University
	Cognitive Psychology	Supervision of thesis project	15	Master Thesis in Cognitive Science, 15 ECTS, the Master's Program in Cognitive Science	G	Eng	Umeå University
	Applied Cognitive Science	Supervision of projects	110	Project in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University
HT 2015	Cognitive Psychology	Supervision of projects	24	Cognitive Psychology, the Clinical Psychologist Program	UG	Swe	Umeå University
	Qualitative methods	Seminars	20	the Psychology of Organizations, Environment and Work, the Clinical Psychologist Program	UG	Swe	Umeå University
VT, HT 2016	Cognitive Psychology	Lab demonstrations	60	2:1 Cognition, the Clinical Psychologist Program	UG	Eng	Umeå University
VT 2016	Cognitive Psychology: Attention	Lectures, seminars, supervision of projects	60	Applied Cognitive Psychology, the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University

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Period(s)	Subject	Type	Clock Hours	Course/Program	Level	Language	University
	Applied Cognitive Science	Supervision of projects	110	Project in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University
	Qualitative and Quantitative methods	Seminars, computer labs	60	the Psychology of Organizations, Environment and Work, the Clinical Psychologist Program	UG	Swe	Umeå University
HT 2016	Cognitive Psychology: Perception, Attention, and Consciousness Clinical Psychology	Lectures	24	Perception, the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University
		Seminars	9	Master Thesis in Psychology, 30 ECTS, the Clinical Psychologist Program	G	Swe	Umeå University
VT, HT 2017	Cognitive Psychology	Lab demonstrations	60	2:1 Cognition, the Clinical Psychologist Program	UG	Eng	Umeå University
VT 2017	Cognitive Psychology, Applied: Attention	Lectures, seminar	20	Applied Cognitive Psychology, the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University
	Applied Cognitive Science	Supervision of projects	40	Project in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University

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Period(s)	Subject	Type	Clock Hours	Course/Program	Level	Language	University
	Qualitative and Quantative research methods	Seminars, computer labs	30	the Psychology of Organizations, Environment and Work, the Clinical Psychologist Program	UG	Swe	Umeå University
	Clinical Psychology	Seminars	30	Master Thesis in Psychology, 30 ECTS, the Clinical Psychologist Program	G	Swe	Umeå University
HT 2017	Cognitive Psychology: Attention and Consciousness	Lectures, seminars	24	Perception, the Bachelor's Program in Cognitive Science	UG	Swe	Umeå University
	Developmental Psychology	Seminar leader	50	Learning and teaching, pedagogy	UG	Swe	Umeå University
VT 2019	Research Methods	Workshops in SPSS	18	Human Resources, Special Pedagogists	G	Swe	Linköping University
	Applied Cognitive Science	Supervision of Projects	24	Applied Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Eng	Linköping University
	Pedagogy	Examination of Thesis	6	Masther Thesis in Special Pedagogy, 30 ECTS, the Specialist Pedagogy Program	G	Swe	Linköping University
HT 2019	Quantative methods, theory of science	Seminar leader, grading exams	62	Theory of Science and Research Methods, Pedagogy	UG	Swe	Linköping University

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Period(s)	Subject	Type	Clock Hours	Course/Program	Level	Language	University
	Cognitive Science	Seminar leader, grading exams	20	Cognitive Science - Methods, the Master's Program in Cognitive Science	G	Swe	Linköping University
	Disability Research	Lectures, workshops, examining	40	Theory of Science and Research Methods, Disability Research II and III	UG	Swe	Linköping University
	Perception	Lectures	12	Neuropsychology and Neuroscience, the Clinical Psychologist Program	G	Swe	Linköping University
	Developmental Psychology, and Applied Learning Disabilities*	Supervision of groups (Problem-based learning)	62	Cognitive Psychology, the Clinical Psychologist Program	UG	Swe	Linköping University
HT, VT 2020	Quantative methods	Lectures	92	Methods for Research and Development in Educational Institutions, Pedagogy	G	Swe	Linköping University
VT 2020	Applied Cognitive Science	Supervision	24	Applied Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Eng	Linköping University
	Cognitive Science	Supervision, Examining	45	Bachelor's Thesis in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe	Linköping University

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Period(s)	Subject	Type	Clock Hours	Course/Program	Level	Language	University
	Cognitive Science	Supervision	20	Master's Thesis in Cognitive Science, the Master's Program in Cognitive Science	G	Swe	Linköping University
HT 2020	Disability Research	Lectures, workshops, examining	80	Theory of Science and Research Methods, Disability Research II and III	UG	Swe	Linköping University
	Quantative methods, theory of science	Seminar leader, grading exams	50	Theory of Science and Research Methods, Pedagogy	UG	Swe	Linköping University
VT 2021	Applied Cognitive Science	Supervision	24	Applied Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Eng	Linköping University
	Cognitive Science	Supervision, Examining	45	Bachelor's Thesis in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe	Linköping University
	Cognitive Science	Supervision of projects	8	Cognitive Science Project I, the Master's Programme in Cognitive Science	G	Swe	Linköping University
		Supervision of thesis projects	30	Disability Research II	G	Swe	Linköping University