

Erik Marsja | Curriculum Vitae

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Positions

Jan 2022 -

Nov 2022 **Researcher**

People in the transport system, Swedish National Road and Transport Research Institute, Linköping, Sweden. Working 80% of a full-time position.

Jan 2022 -

Nov 2021 **Postdoctoral Researcher**

Disability Research Division, Department of Behavioural Sciences and Learning (IBL), Linköping University.

Analyzing data from a large database (i.e., n200) and preparing manuscripts in the field of cognitive hearing science. Conducting qualitative research and about digitalization, listening effort, and work-life (see Funding and Grants). Working 20% of a full-time position.

Jan 2019 -

Dec 2021 **Postdoctoral Researcher**

Disability Research Division, Department of Behavioural Sciences and Learning (IBL), Linköping University.

Analyzing data from a large database (i.e., n200) and preparing manuscripts in the field of cognitive hearing science. Responsible for arranging the monthly HEAD seminar series (august 2020 - august 2021). This includes contacting national, and international, researchers, booking flights, hotels, as well as setting up equipment for streaming the seminars online.

Aug 2018 -

Oct 2018 **Postdoctoral Research Assistant**

Department of Psychology, Umeå University.

Project: How does humans perception of safety differ in a broken communication chain compared to an unbroken communication chain?

Literature study commissioned by SOS Alarm, an emergency agency (e.g., public-safety answering point), with the results disseminating in a report.

Oct 2012 -

June 2018 **PhD Student and Teaching Assistant**

Department of Psychology, Umeå University.

Planning of studies, programming of experiments, literature search, data analysis, scientific communication, and many more. See the section "Teaching responsibilities" for an overview of my pedagogical experience.

June 2011 **Undergrad. Research Assistant**

Department of Psychology, Umeå University.

Recruitment of participants and data collection, commenting on later manuscript that ended up in a published paper (see publication 2014).

Degrees and Titles

2017	Ph.D. in Psychology
	Department of Psychology, Umeå University. Thesis title: Attention capture by sudden and unexpected changes: a multisensory perspective. Available from the DiVA Database: http://umu.diva-portal.org/smash/record.jsf?pid=diva2 Supervisors: Associate Professor Jessica K. Ljungberg, Professor Gregory Neely, & Dr. Patrik Hansson
2012	M.Sc. in Cognitive Science
	Department of Psychology, Umeå University. Thesis title: Attention Capture: The Impact of Change in Spatial Sound Source on Behavior. Supervisor: Associate Professor Jessica K. Ljungberg
2011	B.Sc. in Cognitive Science
	Department of Psychology, Umeå University. Thesis title: Attention Capture: Studying the Distracting Effect of One's Own Name. Available from DiVA Database: http://urn.kb.se/resolve?urn=urn:nbn:se:umu:diva-46607 . Supervisor: Associate Professor Jessica K. Ljungberg

Publications

Accepted/In press/Published

Stenbäck, V., Marsja, E., Hällgren, M., Lyxell, B., & Larsby, B. (In Press). Informational masking and listening effort in speech-recognition-in-noise – the role of working memory capacity and inhibitory control in older adults with and without hearing impairment. *Journal of Speech, Language, and Hearing Research*. https://doi.org/10.1044/2022_JSLHR-21-00674

Stenbäck, V., Marsja, E., Ellis, R., & Rönnberg, J. (2022). Relationships between objective and subjective outcome measures of speech recognition in noise. *International Journal of Audiology*. <https://doi.org/10.1080/14992027.2022.2047232> (PDF)

Marsja, E., Stenbäck, V., Moradi, S., Danielsson, H., & Rönnberg, J. (2022). Is Having Hearing Loss Fundamentally different? Multi-group structural equation modeling of the effect of cognitive functioning on speech identification. *Ear and Hearing*, 43(5). <https://doi.org/10.1097/AUD.0000000000001196> (PDF)

Stenbäck, V., Marsja, E., Hällgren, M., Lyxell, B., & Larsby, B. (2021). The Contribution of Age, Working Memory Capacity, and Inhibitory Control on Speech Recognition in Noise in Young and Older Adult Listeners. *Journal of Speech, Language, and Hearing Research*, 64(11), 4513–4523. https://doi.org/10.1044/2021_JSLHR-20-00251

Rosa, E., **Marsja**, E., & Ljungberg, J. K. (2020). Exploring Residual Capacity: The Effectiveness of a Vibrotactile Warning During Increasing Levels of Mental Workload in Simulated Flight Tasks. *Aviation Psychology and Applied Human Factors*, 10(1), 13–23. <https://doi.org/10.1027/2192-0923/a000180>

Marsja, E., Marsh, J.E., Hansson, P., & Neely, G. (2019). Examining the Role of Spatial Changes in Bimodal and Uni-Modal To-Be-Ignored Stimuli and How They Affect Short-Term Memory Processes. *Frontiers In Psychology*. <https://doi.org/10.3389/fpsyg.2019.00299> (PDF)

Marsja, E., Neely, G., & Ljungberg, K.J. (2018). Investigating Deviance Distraction and the Impact of the Modality of the To-Be-Ignored Stimuli. *Experimental Psychology*, 65(2), 61–70. <http://doi.org/10.1027/1618-3169/a000390> (R-Script & data available: <https://osf.io/amd2h/>.)

Ljungberg, K. J., Parmentier, F. B. R., Jones, D. M., **Marsja**, E., & Neely, G. (2014). “What’s in a name?” “No more than when it’s mine own”. Evidence from auditory oddball distraction. *Acta Psychologica*, 150C, 161–166. <http://dx.doi.org/10.1016/j.actpsy.2014.05.009>

In Preparation/Submitted/Under Revision

Marsh, J.E., Vachon, F., Sörqvist, P., **Marsja**, E., Röer J.P., Richardson, B.H., & Ljungberg, K.J. (Submitted). Irrelevant Changing-state Vibrotactile Stimuli Disrupt Verbal Serial Recall: Implications for Theories of Interference in Short-term Memory.

Stenbäck, V., Hällgren, M., **Marsja**, E. (Manuscript in Preparation). The Role of Maskers, Speech Reception Thresholds, and Speech Materials on Speech Recognition in Noise for young adults, and older adults with and without hearing loss.

Marsja, E., Micula A., Stenbäck, V. Holmer, E., E., Danielsson, H. & Rönnberg, J. (Manuscript in Preparation). The Role of Fluid Intelligence in Mediating the Effects of Working Memory and Hearing Impairment on Speech Recognition in Noise.

Marsja, E., Danielsson, H., & Stenbäck, V. (Manuscript in Preparation). The Contribution of Cognition to Speech in Noise: Informational vs. Energetic Maskers.

Marsja, E., Neely, G., & Ljungberg, K.J (Manuscript in Preparation). Deviance distraction in the auditory and tactile modalities after repeated exposure: differential aspects of tactile and auditory deviants.

Conference Presentations

Marsja, E., Danielsson, H., Stenbäck, V., Moradi, S., Rönnberg, J. (2019, November). Examining how Cognitive Functioning, Aging, and Hearing Loss, Affect Speech-in-Noise Performance. Aging and Speech Communication conference, Tampa, Florida, USA. **Poster**.

Stenbäck, V., **Marsja**, E., Danielsson, H., Rönnberg, J. (2019, November). Logical and Auditory Inference Making: Performance in the HINT in normally-hearing and hearing-impaired listeners. Aging and Speech Communication conference, Tampa, Florida, USA. **Poster**.

Bampouni, E., **Marsja**, E., Sörman, D.E., & Ljungberg, K.J (2019, November). Do Action Gamers Have Enhanced Visual Search Skills? a Realistic Task Approach. The 15th SweCog conference of the Swedish Cognitive Science Society, Umeå, Sweden. **Poster**.

Marsja, E., Danielsson, H., Stenbäck, V., Moradi, S., & Rönnberg, J. (2019, June). Examining Relationship Amongst Cognition, Hearing Loss, Age, & Speech in Noise. Cognitive Hearing Science for Communication, Linköping, Sweden. **Poster**.

Stenbäck, V., Moradi, S., **Marsja**, E., Danielsson, H., & Rönnberg, J. (2019, June). Logical and auditory inference-making in normally-hearing and hearing-impaired listeners. Cognitive Hearing Science for Communication, Linköping, Sweden. **Poster**.

Marsja, E., Marsh, J.E., Neely G., Hansson P., & Ljungberg K.J. (2017, April). Domain-general or domain-specificity of the short-term memory: insights from a multisensory distraction paradigm. Re-thinking the Senses Spring School, Dubrovnik, Croatia. **Poster**.

Marsja, E., Marsh, J.E., Neely G., Hansson P., & Ljungberg K.J. (2016, September). Do Spatial Changes in Sounds and Vibrations Affect Visuo-spatial and Verbal Short-Term Memory? Attention and Control: Insights from Distraction, Workshop, University of Central Lancashire, Preston, UK. **Invited presentation**.

Marsja, E., Marsh, J.E., Neely G., Hansson P., & Ljungberg K.J. (2016, June). Spatial Change in Multisensory Distractors Impact on Verbal and Spatial Short Term Memory. International Multisensory Research Forum 17th annual meeting, Suzhou, CHN. **Oral presentation**.

Marsja, E., Neely G., Ma, L., & Ljungberg K.J., (2015, August). Cross-modality matches of intensity and attention capture dimensions of auditory and vibrotactile stimuli. Fechner Day 2015. The 31st Annual Meeting of the International Society for Psychophysics, Québec, CA. **Poster**.

Marsja, E., Neely, G., Parmentier, F.B.R., & Ljungberg, K.J. (2014, October) Deviance Distraction Is Contingent on Stimuli Being Presented within the Same Modality. Psychonomic Society's 55th Annual Meeting. Long Beach, CA, USA. **Poster**.

Ljungberg, K.J., Parmentier, F.B.R., **Marsja**, E., Neely, & G. Jones, D., (2014, January). Any Tom, Dick, or Harry will do: Hearing one's own name distracts no more than any other in a cross-modal oddball task. Experimental Psychology Society Meeting. London, UK. **Poster**.

Marsja, E., Neely, G., Parmentier, F.B.R., & Ljungberg, K.J. (2013, October). Maintenance of the distractive effect of deviating vibrotactile stimuli in a cross-modal oddball paradigm. The 29th Annual meeting of the International Society of Psychophysics, Freiburg, DE. **Poster**.

Popular Science and Education-Related Articles

Marsja, E. (2016, July). Python Programming in Psychology – From Data Collection to Analysis. *JEPS Bulletin - The Official Blog of the Journal of European Psychology Students*. **Invited Blog Post**. Retrieved from <http://blog.efpsa.org/2016/07/12/python-programming-in-psychology-from-data-collection-to-analysis/>

Science Outreach

Marsja, E., & Stenbäck, V., (June, 2022). Current and Ongoing Projects on Hearing loss, Cognition, Psychosocial Perspectives, Video Meetings and Listening Effort. Presentation for the Hearing Clinics (Öron- näs- och halsklinikerna), Region Östergötland.

Funding and Grants

299 235 SEK from Hörsselforskningsfonden (the Hearing Research Fund) for the project *Lyssningsansträngning hos individer med hörselnedsättning på grund av ökad digitalisering i arbetslivet (Listening effort in individuals with hearing impairment due to increased digitalisation in working life)*, 2021.

6000 SEK from the Department of Psychology, Umeå University, for participating in the Re-thinking the Senses Spring School, Dubrovnik, Croatia, 2017.

15000 SEK from Lars Hiertas Minnesfond for the project *Är korttidsminnet domän-generellt eller domän-specifikt? (Is short-term memory domain-general or domain specific?)*, 2016.

12 000 SEK from the Faculty of Social sciences, Umeå University, for participating in the workshop Attention and Control: Insights from Distraction, and visiting a researcher at the University of Central Lancashire, Preston, UK, 2016.

8000 SEK from the Department of Psychology, Umeå University, for participating in the conference 17th International Multisensory Research Forum 15-18 June, Suzhou, China, 2016.

10 000 SEK from JC Kempes minnesfond for the project *Is everyday distractibility related to attention capture by vibrating deviants?*, 2014.

9 000 SEK from Knut och Alice Wallenbergs Stiftelse for participating in the conferences Psychonomic Society's 55th Annual Meeting, 20-23 November, and APCAM, 20 November, Long Beach, USA, 2014.

6000 SEK from the Department of Psychology for participating in the conference Fechner Day 2013 (the 29th Annual Meeting of the International Society for Psychophysics) 21-25 October, Freiburg i.Br., Germany, 2013.

Peer-reviewed for Journals:

- The Journal of the Acoustical Society of America
- Behavior Research Methods
- Frontiers in Psychology
- Journal of Cognitive Psychology

Skills & Training

Training

2017 Spring School *Re-Thinking the Senses*, Inter-University Centre, Dubrovnik, Croatia

Teaching

Primarily in:

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

All lectures, seminars, lab demonstrations, supervision of group project (both involving empirical and applied projects) and supervision of thesis' have been given at the Department of Psychology, Umeå University, Sweden (2014 - 2017) and the Department of Behavioral Science and Learning, Linköping University (2019 -). At Linköping University I have also held workshops, and supervised projects. I have so far taught 950 and 824 clock hours. See Table 1 for an overview of my teaching responsibilities, clock hours, and courses.

Supervision of Bachelor Students (Undergraduate Level)

Jerdhaf, O. (2021). Department of Computer and Information Science, Linköping University. "Discovering Implant Terms in Medical Records". 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*

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*

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.

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

Responsibilities

- Organizer of the monthly HEAD/DRD Seminar Series (e.g., contacting and inviting national and international researchers, booking tickets and accommodation)
- Elected chairperson of the Ph.D. students Council of the Department of Psychology, Umeå University.

Table 1: Teaching responsibilities - an overview of type of teaching, hours, etc.

Period	Subject	Type	Clock Hours	Course/Program	Level	Language
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
	Cognitive Psychology	Supervision of projects	20	Introduction to Psychology, the Clinical Psychologist Program	UG	Swe
HT 2014	Clinical Psychology	Co-supervision of thesis project	20	Master Thesis in Psychology, 30 ECTS, the Clinical Psychologist Program	G	Eng
	Applied Cognitive Science	Supervision of projects	40	Project in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe
	Cognitive Psychology	Supervision of projects	20	Introduction to Psychology, the Clinical Psychologist Program	UG	Swe
VT 2015	Cognitive Psychology	Supervision of projects	24	Introduction to Psychology, the Clinical Psychologist Program	UG	Swe
	Cognitive Psychology	Lectures, seminars, supervision of projects	20	Basic psychology and sport psychology, the Coaching Program	UG	Swe
	Cognitive Psychology	Supervision of thesis project	15	Master Thesis in Cognitive Science, 15 ECTS, the Master's Program in Cognitive Science	G	Eng
	Applied Cognitive Science	Supervision of projects	110	Project in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe
HT 2015	Cognitive Psychology	Supervision of projects	24	Cognitive Psychology, the Clinical Psychologist Program	UG	Swe

Table 1: Teaching responsibilities - an overview of type of teaching, hours, etc. (*continued*)

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

Table 1: Teaching responsibilities - an overview of type of teaching, hours, etc. (*continued*)

Period	Subject	Type	Clock Hours	Course/Program	Level	Language
HT 2017	Cognitive Psychology	Lab demonstrations	30	2:1 Cognition, the Clinical Psychologist Program	UG	Eng
VT 2017	Cognitive Psychology, Applied: Attention	Lectures, seminar	20	Applied Cognitive Psychology, the Bachelor's Program in Cognitive Science	UG	Swe
	Applied Cognitive Science	Supervision of projects	40	Project in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe
	Qualitative and Quantative research methods	Seminars, computer labs	30	the Psychology of Organizations, Environment and Work, the Clinical Psychologist Program	UG	Swe
	Clinical Psychology	Seminars	30	Master Thesis in Psychology, 30 ECTS, the Clinical Psychologist Program	G	Swe
	Cognitive Psychology	Lab demonstrations	30	2:1 Cognition, the Clinical Psychologist Program	UG	Eng
	Cognitive Psychology: Attention and Consciousness	Lectures, seminars	24	Perception, the Bachelor's Program in Cognitive Science	UG	Swe
VT 2019	Developmental Psychology	Seminar leader	50	Learning and teaching, pedagogy	UG	Swe
	Research Methods	Workshops in SPSS	18	Human Resources, Special Pedagogists	G	Swe
	Applied Cognitive Science	Supervision of Projects	24	Applied Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Eng
	Pedagogy	Examination of Thesis	6	Master Thesis in Special Pedagogy, 30 ECTS, the Specialist Pedagogy Program	G	Swe

Table 1: Teaching responsibilities - an overview of type of teaching, hours, etc. (*continued*)

Period	Subject	Type	Clock Hours	Course/Program	Level	Language
HT 2019	Quantative methods, theory of science	Seminar leader, grading exams	62	Theory of Science and Research Methods, Pedagogy	UG	Swe
	Cognitive Science	Seminar leader, grading exams	20	Cognitive Science - Methods, the Master's Program in Cognitive Science	G	Swe
	Disability Research	Lectures, workshops, examining	40	Theory of Science and Research Methods, Disability Research II and III	UG	Swe
	Perception	Lectures	12	Neuropsychology and Neuroscience, the Clinical Psychologist Program	G	Swe
	Applied Learning Disabilities	Supervision of groups (Problem-based learning)	16	Cognitive Psychology, the Clinical Psychologists Program	UG	Swe
	Adult life and Aging	Supervision of groups (Problem-based learning)	20	Developmental Psychology, the Clinical Psychologists Program	UG	Swe
HT and VT 2020	Quantative methods	Lectures	92	Methods for Research and Development in Educational Institutions, Pedagogy	G	Swe
VT 2020	Applied Cognitive Science	Supervision	24	Applied Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Eng
	Cognitive Science	Supervision, Examining	45	Bachelor's Thesis in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe
	Cognitive Science	Supervision	20	Master's Thesis in Cognitive Science, the Master's Program in Cognitive Science	G	Swe

Table 1: Teaching responsibilities - an overview of type of teaching, hours, etc. (*continued*)

Period	Subject	Type	Clock Hours	Course/Program	Level	Language
HT 2020	Disability Research	Lectures, workshops, examining	80	Theory of Science and Research Methods, Disability Research II and III	UG	Swe
	Quantative methods, theory of science	Seminar leader, grading exams	50	Theory of Science and Research Methods, Pedagogy	UG	Swe
VT 2021	Applied Cognitive Science	Supervision	20	Applied Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Eng
		Supervision of research project	8	Research Project, the Master's Programme in Cognitive Science	G	Swe
	Cognitive Science	Supervision, Examining	45	Bachelor's Thesis in Cognitive Science, the Bachelor's Program in Cognitive Science	UG	Swe
	Disability Research	Supervision of theses	30	University Diploma Thesis, Disability Research II	UG	Swe
HT 2021	Disability Research	Lectures, workshops, examining	80	Theory of Science and Research Methods, Disability Research II and III	UG	Swe
	Disability Research	Lectures, examination	40	Introduction to Research methods and Ethics	UG	Swe
	Research Methods	Supervision of groups (Problem-based learning)	36	Research Methods, the Clinical Psychologists Program	UG	Swe
	Applied Learning Disabilities	Supervision of groups (Problem-based learning)	16	Cognitive Psychology, the Clinical Psychologists Program	UG	Swe
	Adult life and Aging	Supervision of groups (Problem-based learning)	20	Developmental Psychology, the Clinical Psychologists Program	UG	Swe

Note:

Total of clock hours: 1774 , UG = Undergraduate, G = Graduate, VT = Spring term, HT = autumn term, * = two courses.