

Erik Marsja | Curriculum Vitae

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Education

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

Employment

Jan 2019 - Postdoctoral Researcher

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

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.

Publications

International peer-reviewed journals

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*. doi: 10.3389/fpsyg.2019.00299

Marsja, E., Neely, G., & Ljungberg, J. K. (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>

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. doi:10.1016/j.actpsy.2014.05.009.

Publications In Preparation/Submitted/Under Revision

Marsja, E. Elbe, P., Sörman, D. (Manuscript in Preparation). Examining the Factor Structure of the Swedish Translation of the Attentional Control Scale and it’s relation to objective measures of attention.

Rosa, E., **Marsja**, E., Ljungberg, K.J. (Manuscript in Preparation). Tactile warnings constitute an efficient alarm during high mental workload in simulated flight tasks

Marsh, J.E., Vachon, F., Sörqvist, P., **Marsja**, E., Röer J.P., & Ljungberg, K.J. (Under Revision). Irrelevant vibro-tactile stimuli produce a changing-state effect: Implications for theories of interference in short-term memory.

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

Conference Presentations

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 Talk.**

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/>

Funding and Grants

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 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 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:

- Journal of Cognitive Psychology

Information about my responsibilities as a peer-reviewer can be found in my Publons profile.

Skills & Training

Training

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

Teaching

Primarily in:

- Attention
- Perception
- Applied Cognitive Psychology
- Cognitive Psychology
- Research Methods

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. I have so far taught 950 clock hours. See Table 1 for an overview of my teaching responsibilities, clock hours, and courses.

Supervision of Master students (graduate level)

Ma, L. (2015). Department of Psychology, Umeå University. "Cross-Modal Matching of Distractibility in Auditory and Tactile Stimuli". Master Thesis in Cognitive Science (15 ECTS).

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

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

- 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 | Cognitive Psychology | Supervision of projects | 20 | Introduction to Psychology, the Clinical Psychologist Program | UG | Swe |
| | 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 |
| 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 |
| | Qualitative methods | Seminars | 20 | the Psychology of Organizations, Environment and Work, the Clinical Psychologist Program | UG | Swe |
| VT 2016 | 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 |
| | Qualitative and Quantitative methods | Seminars, computer labs | 30 | the Psychology of Organizations, Environment and Work, the Clinical Psychologist Program | UG | Swe |
| | Applied Cognitive Science | Supervision of projects | 110 | Project in Cognitive Science, the Bachelor's Program in Cognitive Science | UG | Swe |
| HT 2016 | 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 |
| VT 2017 | Cognitive Psychology | Lab demonstrations | 30 | 2:1 Cognition, the Clinical Psychologist Program | UG | Eng |
| | 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 Quantitative 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 |
| HT 2017 | 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 |
| | Developmental Psychology | Seminar leader | 50 | Learning and teaching, pedagogy | UG | Swe |

Total of clock hours: 950 , UG = Undergraduate, G = Graduate