

Erik Marsja

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Current research

I am examining how sudden and unexpected changes in our environment captures our attention and, thus, causes distraction from what we currently are engaged in. Specifically, my Ph.D. work is examining how sudden and unexpected changes in auditory, tactile, and the combination of both auditory and tactile (multisensory) stimulation affects performance in speeded and short-term memory tasks.

Research ambition

My goal is to create my academic career in cognitive and applied psychology. Specifically, in the areas of attention and cognitive control. I aspire to eventually be able to work as an established researcher in these, and related (i.e., cognitive neuroscience), areas.

Education and Degrees

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- 2012-Present Ph.D. Student in Psychology
 - 2011-2012 M.Sc. in Cognitive Science (*Thesis*: Attention Capture: The Impact of Change in Spatial Sound Source on Behavior- Department of Psychology, Umeå University.
 - 2008-2011 B.Sc. in Cognitive Science (*Thesis*: Attention Capture: Studying the Distracting Effect of One's Own Name. Department of Psychology, Umeå University. Available from DiVA Database (<http://urn.kb.se/resolve?urn=urn:nbn:se:umu:diva-46607>)

Publications

International peer-reviewed journals

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 own2. Evidence from auditory oddball distraction. *Acta Psychologica*, 150C, 161–166. doi:10.1016/j.actpsy.2014.05.009

Publications In Preperation/Submitted/Under Revision

Marsja, E., Neely, G., Ljungberg K.J. (Submitted). The impact of presence and absence of standard vibrations and deviating sounds in a visual attention task

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

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

Current research collaborations

- Associate Professor Jessica K. Ljungberg, Department of Psychology, Umeå University, Umeå, Sweden
- Associate Professor Gregory Neely, Department of Psychology, Umeå University, Umeå, Sweden
- Dr. Patrik Hansson, Department of Psychology, Umeå University, Umeå, Sweden
- Dr. John E. Marsh, School of Psychology, University of Central Lancashire, UK
- Professor Patrik Sörqvist, Faculty of Engineering and Sustainable Development, Högskolan i Gävle, Gävle

Conference Presentations

Marsja, E., Neely G., Ma, Lichen., 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**.

Funding and Grants

10 000 SEK 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, Long Beach, USA, 20-23 November and APCAM, Long Beach, USA, 20 November, 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

Teaching responsibilities

Past & current areas at undergraduate level

Primarily in:

- Attention

- Perception
- Applied Cognitive Psychology
- Cognitive Psychology
- Research Methods
- Project work

Lectures, Seminars, Lab demonstrations, Group project (both involving empirical projects and more applied projects) and Supervision have been given at the Department of Psychology Umeå University, Sweden. I have so far taught 603 clock hours. See Table for an overview of teaching topics.

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

| Period | Subject | Type | Clock Hours | Course/Program | Level | Language |
|---------|--|---|---------------------------|---|--|--|
| VT 2014 | Cognitive Psychology Research Methods | Supervision of project work Lectures | 20 60 | Introduction to Psychology Developmental Psychology and Per- sonality Theory , Psychology Pro- gram | Undergraduate Undergraduate | Swedish Swedish |
| HT 2014 | Cognitive Psychology Psychology Cognitive Science | Supervision of project work Supervision Supervision of project work | 20 20 40 | Introduction to Psychology Master Thesis 30 ECTS, Psychology Program Project in Cognitive Science, Bach- elor's Program in Cognitive Science | Undergraduate Graduate Undergraduate | Swedish Swedish Swedish |
| VT 2015 | Cognitive Psychology Cognitive Psychology, Atten- tion, Perception, Memory Cognitive Psychology, Psy- chophysics, Attention Cognitive Science | Supervising projects Lectures, seminars, supervi- sion of projects, Supervision Supervision of project work | 24 20 15 110 | Introduction to Psychology Basic psychology and sport psychol- ogy Master Thesis 15 ECTS, Master's Program in Cognitive Science Project in Cognitive Science, Bach- elor's Program in Cognitive Science | Undergraduate Undergraduate Graduate Undergraduate | Swedish Swedish English Swedish |
| HT 2015 | Cognitive Psychology Research Methods | Supervising projects Seminars in Qualitative re- search methods | 24 20 | Cognitive Psychology, Psychology Program Psychology of Organizations, Envi- ronment and Work, Psychology Pro- gram | Undergraduate Undergraduate | Swedish Swedish |
| VT 2016 | Cognitive Psychology Applied Cognitive Psychol- ogy, Auditory Cognition, At- tention Research Methods Cognitive Science | Lab demonstrations Lectures, seminars, supervi- sion of projects, examination SPSS laboration, seminars, examination Supervision of project work | 30 60 30 110 | 2:1 Cognition, Psychology Program Applied Cognitive Psychology, Bachelor's Program in Cognitive Science Psychology of Organizations, Envi- ronment and Work, Psychology Pro- gram Project in Cognitive Science, Bach- elor's Program in Cognitive Science | Undergraduate Undergraduate Undergraduate Undergraduate | English Swedish Swedish Swedish |

Total of clock hours: 603

Supervision of master students

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: Anknytningens betydelse (To cope leaving abusive relationships: The importance of attachment). Master Thesis in Clinical Psychology (30 ECTS)

Additional skills

- Good programming skills in Python (v2.x) and R
 - Good skills in Microsoft Word and Excel
 - Basic skills in Markdown (e.g., RMarkdown) and LaTeX
 - Basic programming skills in Visual Basic, E-basic (E-prime), and MATLAB
 - Basic skills in statistical software such as SPSS and R
 - Programming and performing experiments using both E-prime, MATLAB, and Python (i.e., PsychoPy)
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