

# Dan-Mikael Ellingsen, Ph.D.

Postdoctoral researcher

Norwegian Center for Mental Disorders Research (NORMENT)

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Marital status: Married

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## Education

Oct 2010 – June 2014

University of Gothenburg, Institute of Neuroscience and Physiology, Sweden

Ph.D. in Neurophysiology. Supervisors: [Dr. Siri Leknes](#),  
[Prof. Johan Wessberg](#), [Prof. Håkan Olausson](#)

Title of thesis: *Central modulation of affective touch, pain, and emotions in humans*. **Awarded the best PhD thesis of 2014**, the Institute of Neuroscience and Physiology. Faculty opponent: [Prof. Tor D. Wager](#), Univ. of Colorado.

Aug 2008 – June 2010

University of Oslo, Department of Psychology, Norway

M.Phil., Psychology, Cognitive Neuroscience programme (120 ECTS)

Title of thesis: *Interactions in the hedonic experience of touch and emotion: A double-blind placebo-controlled study using intranasal Oxytocin*

Aug 2005 – June 2008

Norwegian University of Science and Technology (NTNU), Norway  
Department of Psychology

B.Soc.Sc. in Psychology (180 ECTS)

## Current position

January 2020 –

Norwegian Center for Mental Disorders Research (NORMENT Center of Excellence), Oslo, Norway

Postdoctoral researcher, mentor: [Prof. Lars T. Westlye](#)

## Previous positions

December 2014 – August 2017, September 2018 – December 2019

University of Oslo, Department of Psychology, Norway

Postdoctoral researcher, mentor: Prof. Bruno Laeng

January 2015 – August 2018

Harvard Medical School, Massachusetts General Hospital, Martinos Center for Biomedical Imaging, USA

Postdoctoral research fellow. Mentors: Prof. Vitaly Napadow, Prof. Ted Kaptchuk

October 2014 – November 2014

Linköping University, Dept. of Clinical and Experimental Medicine, Sweden

Research fellow, mentor: Prof. Håkan Olausson.

June 2014 – October 2014

University of Gothenburg, Institute of Neuroscience and Physiology, Sweden

Research fellow, mentor: Prof. Johan Wessberg.

October 2011 – December 2011

Oxford University, The Oxford Centre for Functional MRI of the Brain, UK

Honorary visiting researcher, Supervisor: Prof. Irene Tracey.

June 2010 – October 2010

University of Gothenburg, Institute of Neuroscience and Physiology, Sweden

Research assistant, Supervisor: Prof. Håkan Olausson.

## Scientific papers and book chapters

1. **Ellingsen, D.M.**, Isenburg, K., Jung, C., Lee, J., Gerber, J., Mawla, I., Sclocco, R., Jensen, K., Loggia, M., Edwards, R., Kelley, J., Kirsch, I., Kaptchuk T., Napadow, V. (In press) *Dynamic brain-to-brain concordance and behavioral mirroring as a mechanism of the patient-clinician interaction*, Science Advances.  
Preprint: <https://www.biorxiv.org/content/10.1101/2020.08.05.237511v1>
2. **Ellingsen, D.M.**, Beissner, F., Moher Alsadi, T., Lazaridou, A., Paschali, M., Berry, M., Isaro, L., Grahl, A., Lee, J., Wasan, A., Edwards, R., Napadow, V.

(In press) *A picture is worth a thousand words: linking fibromyalgia pain widespreadness from digital pain drawings with pain catastrophizing and brain cross-network connectivity*, PAIN.

3. Zunhammer, M., Spisak, T., Bingel, U., Wager, T.D., Atlas, L., Benedetti, F., Büchel, C., Choi, J.C., Colloca, L., Duzzi, D., Eippert, F., **Ellingsen, D.M.**, Elsenbruch, S., Geuter, S., Gollub, R., Kaptchuk, T.J., Kessner, S.S., Kirsch, I., Kong, J., Lamm, C., Leknes, S., Müllner-Huber, A., Lui, F., Posso, C.A., Rütgen, M., Schenk, L., Schmid, J., Theysohn, N., Tracey, I., Wrobel, N., Zeidan, F. (submitted) *Neural systems underlying placebo analgesia – a meta-analysis of individual participant fMRI data*.
4. Becker, S., Bräscher, A.K., Bannister, S., Bensafi, M., Calma-Birling, D., Chan, R., Eerola, T., **Ellingsen, D.M.**, Ferdenzi, C., Hanson, J.L., Joffily, M., Lidhar, N., Lowe, L.J., Martin, L., Musser, E., Noll-Hussong, M., Olino, T., Lobo, R.P., Wang, Y., (2019) *The Role of Hedonics in the Human Affectome*, Neuroscience and Biobehavioral Reviews, 102, 221-241.
5. **Ellingsen, D.M.**, Napadow, V., Protsenko, E., Mawla, I., Kowalski, M.H., Swensen, D., O'Dwyer-Swensen, D., Edwards, R.R., Kettner, N., Loggia, M.L., (2018) *Brain Mechanisms of Anticipated Painful Movements and Their Modulation by Manual Therapy in Chronic Low Back Pain*, Journal of Pain, 19(11), 1352-1365.
6. Zunhammer, M., Bingel, U., Wager, T.D., Atlas, L., Benedetti, F., Büchel, C., Choi, J.C., Colloca, L., Duzzi, D., Eippert, F., **Ellingsen, D.M.**, Elsenbruch, S., Geuter, S., Gollub, R., Kaptchuk, T.J., Kessner, S.S., Kirsch, I., Kong, J., Lamm, C., Leknes, S., Müllner-Huber, A., Lui, F., Posso, C.A., Rütgen, M., Schenk, L., Schmid, J., Theysohn, N., Tracey, I., Wrobel, N., Zeidan, F. (2018) *Placebo Effects on the Neurologic Pain Signature: A Meta-analysis of Individual Participant Functional Magnetic Resonance Imaging Data*. JAMA Neurology, 75(11), 1321-1330.
7. Lee, J., Protsenko, E., Lazaridou, A., Franceschelli, O., **Ellingsen, D.M.**, Mawla, I., Isenburg, K., Berry, M.P., Galenkamp, L., Loggia, M.L., Wasan, A.D., Edwards, R.R., Napadow, V. (2018) *Encoding of self-referential pain catastrophizing in posterior cingulate cortex in fibromyalgia*, Arthritis and Rheumatology, 70, (8), 1308-1318.
8. **Ellingsen, D.M.**, Kringelbach, M.L., Leknes, S. (2018) *A neuroscience perspective on pleasure and pain*, in Bain et al. (Eds), Philosophy of Pain: Unpleasantness, Emotion, and Deviance, Routledge, 70-88.
9. Liljencrantz, J., Strigo, I., **Ellingsen, D.M.**, Krämer, H.H., Lundblad, L., Leknes, S., Olausson, H., (2017) *Slow brushing reduces heat pain in humans*. European Journal of Pain, 21 (7), 1173-1185.

10. **Ellingsen, D.M.**, Garcia, R.G., Lee, J., Lin, R.L., Kim, J., Thurler, A.H., Castel, S., Dimisko, L., Rosen, B.R., Hadjikhani, N., Kuo, B., Napadow, V. (2017) *Cyclic Vomiting Syndrome is characterized by altered functional brain connectivity of the insular cortex: A cross-comparison with migraine and healthy adults.* *Neurogastroenterology and Motility*, 29 (6), e13004.
11. **Ellingsen, D.M.**, Leknes, S., Wessberg, J., Løseth, G., Olausson, H. (2016) *The neurobiology shaping affective touch: Expectation, motivation, and meaning in the multisensory context.* *Frontiers in Psychology*, 6:1986.
12. Løseth, G., Leknes, S., **Ellingsen, D.M.** (2016) *The neurochemical basis of motivation for affiliative touch*, In Olausson et al. (Eds), *Affective Touch and the Neurophysiology of CT Afferents*. Springer, 239-264.
13. **Ellingsen, D.M.** (2015) *How do C-tactile skin afferents contribute to erotic affect?*, *Journal of Sexual Medicine*, 12(7), 1656-1656.
14. **Ellingsen, D.M.**, Leknes, S., Kringelbach, M.L. (2015) *Hedonic value*, In Brosch, T. and Sander, D. (Eds), *Handbook of Value: Perspectives from Economics, Neuroscience, Philosophy, Psychology and Sociology*, 265-286. Oxford University Press, Oxford, UK.
15. Løseth, G., **Ellingsen, D.M.**, Leknes, S. (2014) *State dependent mu-opioid modulation of social motivation*, *Frontiers in Behavioral Neuroscience*, 8:430.
16. **Ellingsen, D.M.**, Leknes, S. (2014) *Forbedring av smerte og velbehag ved bruk av placebo*, *BestPractice Smerte*, 10, 16-17.
17. **Ellingsen, D.M.**, Leknes, S. (2014) *Kan vi snu smerteopplevelsen fra vond til god? Forventninger, kontekst og lettelse påvirker smerte*, *BestPractice Smerte*, 9, 6-7.
18. **Ellingsen, D.M.**, Wessberg, J., Chelnokova, O., Olausson, H., Laeng, B., Leknes, S. (2014) *In touch with your emotions: Oxytocin and touch change social impressions while others' facial expressions can alter touch*, *Psychoneuroendocrinology*, 39, 11-20.
19. **Ellingsen, D.M.**, Wessberg, J., Eikemo, M., Liljencrantz, J., Endestad, T., Olausson, H., Leknes, S. (2013) *Placebo Improves Pleasure And Pain Through Opposite Modulation Of Sensory Processing*, *Proc Natl Acad Sci U S A*, 110, 17993-17998.
20. **Ellingsen, D.M.**, Leknes, S. (2013) *Placebo gav lindrad smärta, men också ökad njutning*, *Läkartidningen*, 110:CLEF.

21. Leknes, S., Wessberg, J, **Ellingsen, D.M.**, Chelnokova, O., Olausson, H., Laeng, B. (2013) *Oxytocin enhances pupil dilation and sensitivity to 'hidden' emotional expressions*, Soc Cogn Affect Neurosci. 8, 741-749.
22. Løseth, G., **Ellingsen, D.M.**, Leknes, S. (2013) *Touch and Pain*. In R. Biswas-Diener & E. Diener (Eds), Noba textbook series: Psychology. Champaign, IL: DEF Publishers. DOI: [www.nobaproject.com](http://www.nobaproject.com).

## Preregistrations

1. **Ellingsen, D.M.**, Frogner, E.R., Meir, R., Leknes, S., Laeng, B. The role of endogenous opioids for placebo improvement of pleasure and pain (OSF preregistration: <https://osf.io/4kx6r>)

## Papers in preparation

1. **Ellingsen, D.M.**, Leknes, S., Tricoli, C., Olausson, H., Wessberg, J. (in prep.) Generalized placebo improvement of both pain and pleasure evoked by specific suggestions of therapeutic benefit.

## Presentations at scientific meetings

1. **Ellingsen, D.M.**, Isenburg, K., Jung, C., Lee, J., Gerber, J., Mawla, I., Sclocco, R., Jensen, K., Loggia, M., Edwards, R., Kelley, J., Kirsch, I., Kaptchuk T., Napadow, V., *Dynamic brain-to-brain concordance underlies the patient-clinician relationship in chronic pain* (Abstract, “International Association for the Study of Pain” congress, 2021).
2. **Ellingsen, D.M.**, Beissner, F., Alsadi, T.M., Lazaridou, A., Paschali, M., Berry, M., Isaro, L., Grahl, A., Lee, J., Edwards, R., Napadow, V. *Saliency brain network connectivity to the Posterior Cingulate Cortex mediates the association between pain catastrophizing and pain widespreadness* (Abstract, “International Association for the Study of Pain” congress, 2021).
3. Anzolin, A., **Ellingsen, D.M.**, Toppi, J., Isenburg, K., Grahl, A., Yücel, M., Ciaramidaro, A., Kaptchuk, T., Astolfi L., Napadow V., *Patient-clinician brain activity during pain treatment: an EEG hyperscanning study* (Abstract, “International Association for the Study of Pain” congress, 2021).
4. Grahl, A., Isenburg, K., Anzolin, A., **Ellingsen, D.M.**, Lee, J., Jung, C., Gerber, J., Kelley, J., Kirsch, I., Kaptchuk, T., Napadow, V., *Harnessing Psychosocial Treatment Aspects of the Patient-Clinician Relationship: A Longitudinal fMRI Hyperscanning Study with Chronic Pain Patients* (Abstract, “International Association for the Study of Pain” congress, 2021).

5. **Ellingsen, D.M.**, Isenburg, K., Jung, C., Lee, J., Gerber, J., Mawla, I., Sclocco, R., Jensen, K., Loggia, M., Edwards, R., Kelley, J., Kirsch, I., Kaptchuk T., Napadow, V., *Hyperscanning the patient-clinician interaction: Brain-to-brain concordance supports therapeutic alliance, facial mirroring, and placebo analgesia.* (Poster, “Society for Neuroscience”, 2019).
6. **Ellingsen, D.M.**, Isenburg, K., Jung, C., Lee, J., Gerber, J., Mawla, I., Sclocco, R., Jensen, K., Edwards, R., Kelley, J., Kirsch, I., Kaptchuk T., Napadow, V., *Brain concordance supports patient/clinician alliance, facial mirroring, and placebo analgesia.* (Poster, the “Human Brain Mapping congress”, 2019).
7. Anzolin, A., **Ellingsen D.M.**, Toppi, J., Isenburg, K., Astolfi, L., Grahl, A., Gerber, J., Kaptchuk, T., Napadow, V., *Patient-clinician brain to brain connectivity during pain treatment: an EEG hyperscanning study.* (Poster, the “Human Brain Mapping congress”, 2019).
8. Isenburg, K., Loggia, M., **Ellingsen, D.M.**, Protsenko, K., Mawla, I., Kowalski, M., Swensen, D., O’Dwyer-Swensen, D., Edwards, R., Napadow, V., Kettner, N., *Increased Salience Network Connectivity following Spinal Manipulative Therapy is Associated with reduced pain in chronic low back pain patients.* (Poster, American Pain Society, 2019).
9. **Ellingsen D.M.**, Jung C., Lee J., Isenburg K., Gerber J., Mawla I., Sclocco R., Edwards R., Kelley J., Kirsch I., Kaptchuk T., Napadow V. *Patient-clinician brain concordance in social mirror circuitry supports non-verbal communication, positive affect, and placebo analgesia – a fMRI hyperscanning study.* (Poster, the “International Association for the Study of Pain” congress, 2018).
10. **Ellingsen, D.M.**, Napadow, V., Protsenko, E., Mawla, I., Kowalski, M.H., Swensen, D., O’Dwyer-Swensen, D., Edwards, R.R., Kettner, N., Loggia, M.L. (2018), *Brain mechanisms of cognitive and emotional responses to expected clinical pain and their modulation by Manual Therapy: a fMRI study in chronic low back pain.* (Poster, the “International Association for the Study of Pain” congress, 2018).
11. **Ellingsen D.M.**, Jung C., Lee J., Isenburg K., Gerber J., Mawla I., Sclocco R., Edwards R., Kelley J., Kirsch I., Kaptchuk T., Napadow V. *Patient-clinician concordance in social mirroring circuitry supports non-verbal communication and placebo analgesia in the context of pain treatment – a fMRI hyperscanning study.* (Poster, Cognitive Neuroscience Society, 2018).
12. **Ellingsen D.M.**, Jung C., Lee J., Isenburg K., Gerber J., Mawla I., Sclocco R., Edwards R., Kelley J., Kirsch I., Kaptchuk T., Napadow V. *Patient-clinician*

*brain concordance in social mirroring circuitry supports placebo analgesia during pain treatment: A fMRI hyperscanning study.* (Poster, American Pain Society, 2018).

13. Lee, J., Protsenko, E., Lazaridou, A., Franceschelli, O., **Ellingsen, D.M.**, Mawla, I., Isenburg, K., Loggia, M.L., Wasan, A.D., Edwards, R.R., Napadow, V. *Posterior cingulate cortex is a key neural substrate for pain catastrophizing in fibromyalgia.* (Poster, American Pain Society, 2018).
14. **Ellingsen D.M.**, Jung C., Lee J., Isenburg K., Gerber J., Mawla I., Sclocco R., Edwards R., Kelley J., Kirsch I., Kaptchuk T., Napadow V. *Patient-clinician concordance in social mirroring brain circuitry during pain treatment: A hyperscanning fMRI study.* (Poster, 15<sup>th</sup> Annual MGH Clinical Research Day, 2017)
15. **Ellingsen D.M.**, Jung C., Lee J., Isenburg K., Gerber J., Mawla I., Sclocco R., Edwards R., Kelley J., Kirsch I., Kaptchuk T., Napadow V. *Patient-clinician concordance in social mirroring brain circuitry during pain treatment: A hyperscanning fMRI study* (Poster, “Society for Neuroscience”, 2017).
16. **Ellingsen D.M.**, Jung C., Lee J., Isenburg K., Gerber J., Mawla I., Sclocco R., Edwards R., Kelley J., Kirsch I., Kaptchuk T., Napadow V. *The brain basis of the patient-clinician relationship in placebo analgesia: A hyperscanning fMRI study* (Poster, “Society for Interdisciplinary Placebo Studies”, 2017).
17. **Ellingsen, D.M.**, Beissner, F., Alsadi, T.M., Lazaridou, A., Franceschelli, O., Protsenko, K., Lee, J., Edwards, R., Napadow, V. *Pain drawings for fibromyalgia show that catastrophizing is associated with pain quality and distribution to specific bodily locations* (Poster, “American Pain Society”, 2017)
18. **Ellingsen D.M.**, Jung C., Lee J., Isenburg K., Gerber J., Mawla I., Sclocco R., Edwards R., Kelley J., Kirsch I., Kaptchuk T., Napadow V. *Simultaneous fMRI to investigate the brain basis of the patient-clinician relationship in pain treatment.* (Poster, “Social & Affective Neuroscience Society”, 2017)
19. **Ellingsen, D.M.**, Napadow, V. *How in the brain can social context reduce pain?* (Poster, The Life Sciences Undergraduate Research Fair (LSURF), Harvard University, 2016)
20. **Ellingsen, D.M.**, Garcia, R.G., Lin, R., Jung, H., Lee, J., Kim, J, Kim, H., Loggia M., Hadjikhani, N., Kuo, B., Napadow, V. *Reduced brain somatosensory network connectivity in Cyclic Vomiting Syndrome and episodic migraine is region-specific.* (Poster, “Digestive Disease Week”, 2016)

21. **Ellingsen, D.M.**, Leknes, S., Triscoli, C., Olausson, H., Wessberg, J. *Generalized placebo improvement of both pain and pleasure evoked by specific suggestions of therapeutic benefit.* (Poster, the “Society for Neuroscience 2015” congress, 2015).
22. Maeda, Y., Kettner, N., Kim, J., Cina, S., Malatesta, C., Gerber, J., McManus, C., Ong-Sutherland, R., Libby, A., Mezzacappa, P., **Ellingsen, D.M.**, Morse, L.R., Kaptchuk, T., Audette, J., Napadow, V. *Increased cortical separation distance predicts long-term symptom relief in carpal tunnel syndrome.* (Poster, the “Human Brain Mapping” congress, 2015).
23. **Ellingsen, D.M.**, Leknes, S., Triscoli, C., Olausson, H., Wessberg, J. *Expectation of specific therapeutic effects induces generalized placebo improvement of both pain and pleasure.* (Poster, the “Society for Neuroscience 2014” congress, 2014).
24. **Ellingsen, D.M.**, Leknes, S., Triscoli, C., Olausson, H., Wessberg, J. *Mutual benefit of placebo: expectation of either analgesia or hyperhedonia leads to both.* (Poster, the “International Association for the Study of Pain” congress, 2014).
25. **Ellingsen, D.M.**, Wessberg, J., Chelnokova, O., Olausson, H., Laeng, B., Leknes, S. *In touch with your emotions: Oxytocin and touch change social judgments while others' facial expressions can alter touch experience* (Poster, the “Society for Neuroscience 2013” congress, 2013).
26. **Ellingsen, D.M.**, Leknes, S., Liljencrantz, J., Endestad, T., Olausson, H., Wessberg, J. *Placebo improvement of pain and reward hedonics: Is similar neurocircuitry involved?* (Poster, the “International Association for the Study of Pain” congress, 2012).
27. **Ellingsen, D.M.**, Leknes, S., Liljencrantz, J., Endestad, T., Olausson, H., Wessberg, J. *Does similar neurocircuitry underlie beneficial placebo effects on pain and pleasantness perception?* (Poster, the “Human Brain Mapping” congress, 2012).
28. **Ellingsen, D.M.**, Leknes, S., Liljencrantz, J., Endestad, T., Olausson, H., Wessberg, J. *Does placebo improvement of pain and reward hedonics recruit similar neurocircuitry? A double-blind cross-over study* (Poster, the “Society for Neuroscience 2011” congress, 2011).
29. Liljencrantz, J., Spadoni, A., Kosheleva, E., O’Connell, R., Simmons, A.N., Matthews, S.C., Leknes, S., **Ellingsen, D.M.**, Olausson, H., Strigo, I.A. *Tactile C afferents modulate heat pain* (Poster, the “Society for Neuroscience 2011” congress, 2011).

30. Leknes, S., **Ellingsen, D.M.**, Wessberg, J., Chelnokova, O., Olausson, H., Laeng, B. *Oxytocin improves emotion recognition in the less socially proficient: Relevance for substance abuse treatment* (Poster, “The International Society of Addiction Medicine” annual meeting, 2011).
31. **Ellingsen, D.M.**, Leknes, S., Liljencrantz, J., Wessberg, J., Olausson, H. *Can beliefs about oxytocin’s prosocial effects induce a rewarding “placebo effect” on perceived touch hedonics?* (Poster, the “Society for Neuroscience 2010” congress 2010).
32. **Ellingsen, D.M.**, Eriksson, E., Sundemo, F., Wessberg, J., Olausson, H., Leknes, S. *Does tonic pain alter pleasant touch perception? A psychophysical investigation using the heat/capsaicin model* (Poster, the “International Association for the Study of Pain” congress, 2010).
33. Leknes, S., Laeng, B., Chelnokova, O., **Ellingsen, D.M.**, & Olausson, H. *Interactions in the hedonic experience of touch and emotion: A double-blind placebo-controlled study using intranasal Oxytocin* (Poster, the “Society for Neuroscience 2009” congress, 2009).

## **Selected oral presentations**

- 2020 *Using fMRI hyperscanning to investigate the patient-clinician relationship in chronic pain: The role of therapeutic alliance, behavioral mirroring, and brain-to-brain concordance in therapeutic pain relief. #WeAreAllInThis Together COVID-19 Journal Club*
- 2020 *Brain-behavioral mechanisms supporting the impact of clinician warmth and competence on pain treatment outcomes.* International conference talk (plenary), 9th OCHER workshop on Clinical Communication Research, Lørenskog, Norway.
- 2019 *Patient-clinician brain concordance supports therapeutic alliance, facial mirroring, and placebo analgesia during pain treatment: a fMRI hyperscanning study.* International conference talk, Society for Interdisciplinary Placebo Studies, Leiden, Netherlands.
- 2019 *Patient-Clinician Concordance in Brain Activity Underpins Therapeutic Alliance and Treatment Pain Relief.* International conference talk, Association for Psychological Science, Washington, DC.
- 2019 *Brain-to-brain concordance supports therapeutic alliance and placebo analgesia in the patient-clinician interaction.* Invited seminar talk, Program for Placebo Studies, Harvard Medical School.

- 2018 *Brain concordance between patients and clinicians underpins non-verbal communication, positive affect, and treatment analgesia – a fMRI hyperscanning.* International conference talk, the Society for Neuroscience, San Diego, CA.
- 2018 *Therapeutic alliance, expectations, and brain-to-brain concordance in the patient-clinician interaction.* Invited seminar talk, Department of Behavioral Sciences in Medicine, Oslo University Hospital.
- 2018 *Brain mechanisms supporting patient-clinician therapeutic alliance in pain treatment - an fMRI hyperscanning study,* Invited seminar talk, Clinical and Cognitive Neuroscience Colloquium, Department of Psychology, University of Oslo, 2018.
- 2018 *fMRI hyperscanning of the patient-clinician interaction,* Invited seminar talk, Emotion and Social Neuroscience Lab, Massachusetts General Hospital, Harvard Medical School.
- 2017 *Specific expectations of therapeutic benefit produces generalized placebo improvement of pain and pleasure.* International conference talk, The Society for Interdisciplinary Placebo Studies, Leiden, Netherlands.
- 2016 *Top-down modulation of positive and negative sensations: Placebos, context, and social interactions.* Invited seminar talk, Cognitive and Affective Neuroscience Lab, University of Colorado at Boulder.
- 2015 *Central modulation of affective touch, pain, and emotions.* National conference talk, at the annual conference of the Norwegian association for the study of pain (IASP chapter), Oslo, Norway.
- 2014 *Central modulation of affective touch in humans.* International conference talk, the Society for Neuroscience 2014, Washington, DC.
- 2013 *Feeling better: Opposite somatosensory modulation in placebo improvement of pleasant and painful touch.* International conference talk, “Progress in our understanding of the psychobiological and neurobiological mechanisms of the placebo and nocebo response”, Tübingen, Germany.
- 2012 *Placebo analgesia and hyperhedonia: Opposite modulation of somatosensory processing during placebo improvement of painful and pleasant touch is mediated by common reward circuitry.* Seminar talk, Center for the Study of Human Cognition, University of Oslo, Norway.
- 2011 *Reducing pain and feeling better: Neurocircuitry involved in placebo enhancement of painful and pleasant touch.* Seminar talk, FMRI PAiN group, University of Oxford, UK.

2011 *Social touch: Role of oxytocin for perception of tactile stimulation and facial expressions*. Conference talk, “From CTs to autism: perspectives on the role of touch in autism spectrum disorder”, Gothenburg, Sweden.

## Popular science writing

1. **Ellingsen, D.M.** (2015) Så vinklar hjärnan din verklighet, Modern Psykologi, 7, 12-39
2. **Ellingsen, D.M.** (2015) Placebo responding and  $\mu$ -opioid brain functioning predict efficiency of antidepressants in MDD, blog post, Mental Elf

## Selected media appearances

1. Meet our postdocs: Dan-Mikael Ellingsen and the neurophysiology of touch. Interview, Martinos/MGH, February 18, 2016.
2. Forskningsrådet sender unge UiO-forskere ut i verden. Interview, Uniforum, January 29, 2015.
3. Mer sosialt følsom med oksytocin. Interview, The Research Council of Norway, February 10, 2014.
4. Mind over gray matter: Placebo improves both pleasure and pain. Interview, Medical Xpress, October 29, 2013.
5. Placebo's double whammy. The Scientist, October 14, 2013.
6. Spray minskade smärta och ökade njutning. Sveriges Radio (Swedish national radio), October 16, 2013.
7. “Love hormone” could battle autism and addiction. Radio interview, Radio Sweden, June 25, 2012.
8. Radio interview on oxytocin and emotion recognition. Nyhetspuls, P4 Väst, June 25, 2012.

## Awards and grants

Research grant for the study *Optimization of brain-based mechanisms supporting psychosocial aspects of acupuncture therapy - a hyperscanning fMRI study*, NIH-NCCIH (R61/R33-AT009306). 2016-2021. **Co-investigator/Project manager**.

Research grant for the study *The neurobiology of the patient-clinician interaction and its impact on pain treatment outcome – a hyper-scanning fMRI study*, awarded by the

Neuroimaging Pilot Funding Initiative at the Martinos Center for Biomedical imaging, MGH (R90DA023427). 2015-2017. **Primary investigator (12 000 USD).**

Personal Mobility Grant (3 year postdoctoral research grant), Cofunded by the Norwegian Research Council and the Marie Skłodowska-Curie Actions (COFUND, FRIPRO-240553/F20), 2015-2019. **Primary investigator (~426 300 USD).**

Best PhD thesis award, Institute of Neuroscience and Physiology, Univ. of Gothenburg, 2014 (**3600 USD**)

Travel award, Society for Interdisciplinary Placebo Studies 2017, (**€300**)

Travel award, “Svenska Läkaresällskapet”, for the Neuroscience 2014 congress, (**1400 USD**).

Travel award, “International Association for the Study of Pain” congress, 2014 (**1100 USD**).

Research grant for the study *Development of affective touch in children*, awarded by “H.M. Queen Silvia Jubilee Fund for research on children and disability”, January 2014. **Primary investigator (9200 USD).**

Presentation selected as “hot topic” for the Neuroscience 2013 congress: *In touch with your emotions: Oxytocin and touch change social judgments while others' facial expressions can alter touch experience.*

Scholar, The European Pain School 2013, organized by IBRO/FENS.

Best presentation award received for the poster *Does placebo improvement of pain and reward hedonics recruit similar neurocircuitry? A double-blind cross-over study* at the “Norwegian Pain Society annual conference”, January 2012 (**1700 USD**).

Honorary visiting researcher, John Radcliffe Hospital, Oxford University, under the supervision of Prof. Irene Tracey, FMRIB PAiN group, October-December 2011.

Personal research exchange grant, European Science Foundation (ESF; ERNI), 2011 (**5500 USD**).

Best presentation award received for the poster *Does tonic pain alter pleasant touch perception? A psychophysical investigation using the heat/capsaicin model* at the “Norwegian Pain Society annual conference”, January 2011.

Internal scholarship, University of Gothenburg, for the study *Interactions in the hedonic experience of touch and emotion: A double-blind placebo-controlled study using intranasal oxytocin*, spring 2010 (**2300 USD**).

Best poster award, “Annual science day and poster session 2010”, University of Gothenburg for the poster *Interactions in the hedonic experience of touch and emotion: A double-blind placebo-controlled study using intranasal oxytocin*

Summer scholarship, University of Oslo, for the study *The effect of oxytocin on the cross-sensory perception of affective touch and emotional facial expressions*, summer 2009 (1500 USD).

## **Professional service**

### Editorial activities:

Journal referee for:

JAMA Psychiatry, Biological Psychiatry, Pain, Human Brain Mapping, Neuroimage, Scientific Reports, Neuroscience and Biobehavioral Reviews, Social Cognitive and Affective Neuroscience, Emotion, Translational Psychiatry, Psychoneuroendocrinology, Biological Psychology, Neuropsychologia, Anesthesiology, European Journal of Neuroscience, European Journal of Pain, British Journal of Pharmacology, British Journal of Clinical Pharmacology, Pain Medicine, Psychosomatic Medicine, Frontiers in Neuroinformatics, Journal of Sexual Medicine, Consciousness and Cognition, PLoS ONE, Neuroscience Letters, Chronic Stress, BioMedCentral Neuroscience, IEEE Transactions on Haptics, Scandinavian Journal of Psychology

2017 – current

Grant evaluator for the European Commission, H2020 (21 grants over 4 calls)

2015

Invited editorial commentary, Journal of Sexual Medicine

### Organizational activities:

September, 2016 –

Project manager for the NIH-NCCIH (R61AT009306) funded project “Optimization of brain-based mechanisms supporting psychosocial aspects of acupuncture therapy - a hyperscanning fMRI study”

March, 2015 – August 2018

Organizer of the bi-weekly Pain Journal Club, Massachusetts General Hospital

June 4th, 2013

Conference organizer, *CT, affective touch, reward*, Jonsered, Sweden

### Committee service:

- 2019  
Poster award committee, Society for Interdisciplinary Placebo Studies (SIPS)  
Leiden, Netherlands
- 2019  
Evaluation committee for 4 open postdoctoral research fellowships,  
Department of Psychology, University of Oslo, Norway
- 2019  
Evaluation committee for postdoctoral research fellowship in the Leknes  
Affective Brain Lab, Department of Psychology, University of Oslo, Norway

Teaching:

*Thesis examiner*

- Spring 2018, External examiner, M.A. thesis in Psychology, Univ. of Tromsø
- Spring 2017, Internal examiner, M.A. thesis in Clinical Psychology, Univ. of Oslo
- Spring 2016, Internal examiner, M.A. thesis in Clinical Psychology, Univ. of Oslo
- Spring 2012, External examiner, M.A. thesis in Psychology, Univ. of Oslo

*Supervision and mentorship*

- 2019-           Supervisor for 3 Master student (internship)  
Department of Psychology, University of Oslo, Norway
- 2017-2019    Supervisor for 2 Bachelor students (Thesis in Cognitive Psychology)  
Department of Psychology, University of Oslo
- 2017-2018    Co-supervisor for Melanie Fu, Senior Thesis in Neurobiology and  
Anthropology, Harvard College
- 2016-2018    Daily mentorship of research assistant trainee Kylie Isenburg,  
Massachusetts General Hospital, Harvard Medical School.

*Teaching appointments*

- 2019           Invited teacher at the *MSCA Master Class 2019*, University of Oslo  
Workshop for applicants to the MSCA Individual Fellowships,  
European Commission
- 2019           *Invited teacher at the MSCA Individual Fellowships workshop 2019*,  
Norwegian research council. Oslo, Norway

2010 – 2014 University of Gothenburg, Institute of Neuroscience and Physiology Amanuensis (20% teaching position) at Department of Physiology Neurophysiology for medical students (lectures, seminars, workshops)

## **Relevant training**

Training in MRI physics and fMRI analysis, FMRIB graduate program, University of Oxford, UK, autumn 2011.

Training in FSL and Freesurfer (software for fMRI analysis), the 11th International FSL and Freesurfer Course, Montreal, Canada, June 2011.

Training in MATLAB Fundamentals (The MathWorks, Inc.) programming, Oslo, April 2012.

Training in E-prime (Psychology Software Tools, Inc.) software, University of Oslo, Spring 2009 (PSY4320; 10 ECTS).

Training in SPSS (SPSS, Inc.) software, Spring 2008, Norwegian University of Science and Technology (PSY2002; 7.5 ECTS) and Autumn 2008, Univ. of Oslo (PSY4010; 10 ECTS).

Fluent in English, Norwegian and Swedish.

## **Referees contact information**

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