

Stanford



Inge Timmers

Postdoctoral Research Fellow, Anesthesiology, Perioperative and Pain Medicine

Bio

BIO

Postdoctoral researcher at the Biobehavioral Pediatric Pain (BPP) Lab, Department of Anesthesiology, Perioperative, and Pain Medicine since October 2017, under supervision of Laura Simons. My PhD research focused on Cognitive Neuroscience and Metabolic Pediatrics (Jan 2011-April 2014, Maastricht University, Netherlands, under supervision of Bernadette Jansma and Estela Rubio-Gozalbo). After my PhD, I started my first postdoc at Maastricht University, at the Department of Cognitive Neuroscience and the Department of Rehabilitation Medicine, under supervision of Amanda Kaas and Jeroen de Jong. My main research interests include (pediatric) chronic pain, psychosocial and sensory aspects of (chronic) pain, and pain rehabilitation.

HONORS AND AWARDS

- Scanning Circles of Pain Engagement (SCOPE), Maternal and Child Health Research Institute (MCHRI) Postdoctoral Support Grant (1-1-2019)

PROFESSIONAL EDUCATION

- Bachelor of Science, Maastricht University (2008)
- Master of Science, Maastricht University (2010)
- Doctor of Philosophy, Maastricht University (2014)

STANFORD ADVISORS

- Laura Simons, Postdoctoral Faculty Sponsor
- Laura Simons, Postdoctoral Research Mentor

LINKS

- BPP lab website: <http://med.stanford.edu/bpplab.html>
- Research Gate profile: https://www.researchgate.net/profile/Inge_Timmers

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My main research interests include (pediatric) chronic pain, psychosocial and sensory aspects of (chronic) pain, and pain rehabilitation. My main focus is on using neuroimaging techniques -both functional and structural MRI- combined with self-reports and sensory testing to unravel underlying mechanisms of pain rehabilitation treatment. I am interested both in adult chronic pain, as well as pediatric chronic pain and parental influences on treatment responses.

Publications

PUBLICATIONS

- **Parent Responses to Their Child's Pain: Systematic Review and Meta-Analysis of Measures.** *Journal of pediatric psychology*
Harrison, L. E., Timmers, I., Heathcote, L. C., Fisher, E., Tanna, V., Duarte Silva Bans, T., Simons, L. E.
2020
- **Rapid identification and clinical indices of fear-avoidance in youth with chronic pain.** *Pain*
Heathcote, L. C., Bhandari, R. P., Timmers, I., Harrison, L. E., Simons, L. E.
2019
- **Exposure in vivo Induced Changes in Neural Circuitry for Pain-Related Fear: A Longitudinal fMRI Study in Chronic Low Back Pain** *FRONTIERS IN NEUROSCIENCE*
Timmers, I., de Jong, J. R., Goossens, M., Verbunt, J. A., Smeets, R. J., Kaas, A. L.
2019; 13
- **Parent psychological flexibility in the context of pediatric pain: Brief assessment and associations with parent behaviour and child functioning** *EUROPEAN JOURNAL OF PAIN*
Timmers, I., Simons, L. E., Hernandez, J. M., McCracken, L. M., Wallace, D. P.
2019; 23 (7): 1340–50
- **Pain neuroscience education on YouTube** *PEERJ*
Heathcote, L. C., Pate, J. W., Park, A. L., Leake, H. B., Moseley, G., Kronman, C. A., Fischer, M., Timmers, I., Simons, L. E.
2019; 7: e6603
- **Brain signatures of threat-safety discrimination in adolescent chronic pain.** *Pain*
Heathcote, L. C., Timmers, I., Kronman, C. A., Mahmud, F., Hernandez, J. M., Bentley, J., Youssef, A. M., Pine, D. S., Borsook, D., Simons, L. E.
2019
- **Exposure in vivo Induced Changes in Neural Circuitry for Pain-Related Fear: A Longitudinal fMRI Study in Chronic Low Back Pain.** *Frontiers in neuroscience*
Timmers, I., de Jong, J. R., Goossens, M., Verbunt, J. A., Smeets, R. J., Kaas, A. L.
2019; 13: 970
- **The interaction between stress and chronic pain through the lens of threat learning.** *Neuroscience and biobehavioral reviews*
Timmers, I., Quaedflieg, C. W., Hsu, C., Heathcote, L. C., Rovnaghi, C. R., Simons, L. E.
2019
- **Is Empathy for Pain Unique in Its Neural Correlates? A Meta-Analysis of Neuroimaging Studies of Empathy** *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*
Timmers, I., Park, A. L., Fischer, M. D., Kronman, C. A., Heathcote, L. C., Hernandez, J., Simons, L. E.
2018; 12
- **Precipitating events in child and adolescent chronic musculoskeletal pain.** *Pain reports*
Becker, A. J., Heathcote, L. C., Timmers, I., Simons, L. E.
2018; 3 (Suppl 1): e665
- **Fear of pain and cortisol reactivity predict the strength of stress-induced hypoalgesia** *EUROPEAN JOURNAL OF PAIN*
Timmers, I., Kaas, A. L., Quaedflieg, C. M., Biggs, E. E., Smeets, T., de Jong, J. R.
2018; 22 (7): 1291–1303
- **Atypical White Matter Connectivity in Dyslexic Readers of a Fairly Transparent Orthography** *FRONTIERS IN PSYCHOLOGY*
Zaric, G., Timmers, I., Gerretsen, P., Gonzalez, G., Tijms, J., van der Molen, M. W., Blomert, L., Bonte, M.
2018; 9
- **Is Empathy for Pain Unique in Its Neural Correlates? A Meta-Analysis of Neuroimaging Studies of Empathy.** *Frontiers in behavioral neuroscience*
Timmers, I., Park, A. L., Fischer, M. D., Kronman, C. A., Heathcote, L. C., Hernandez, J. M., Simons, L. E.
2018; 12: 289

- **Atypical White Matter Connectivity in Dyslexic Readers of a Fairly Transparent Orthography.** *Frontiers in psychology*
Žariš, G., Timmers, I., Gerretsen, P., Fraga González, G., Tijms, J., van der Molen, M. W., Blomert, L., Bonte, M.
2018; 9: 1147