

# Curriculum Vitae

NICOLAS LEENAERTS, M.D., Ph.D.

Psychiatry Resident / Researcher  
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## EDUCATION

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| 2018-ongoing | <b>Master after Master in Specialized Medicine</b><br>Faculty of Medicine, KU Leuven, Belgium  |
| 2022-ongoing | <b>Postgraduate Degree in Cognitive Behavioral Therapy</b><br>Faculty of Psychology, KU Leuven, Belgium                              |
| 2019-2023    | <b>Doctor of Philosophy in Biomedical Sciences</b><br>Cognitive and Molecular Neurosciences, Faculty of Medicine, KU Leuven, Belgium |
| 2014-2018    | <b>Master of Science in Medicine (Magna Cum Laude)</b><br>Faculty of Medicine, KU Leuven, Belgium                                    |
| 2011-2014    | <b>Bachelor of Science in Medicine (Summa Cum Laude)</b><br>Faculty of Medicine, KU Leuven, Belgium                                  |

## ADDITIONAL TRAINING

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| 2022 | <b>Writing Course</b><br>Nature Publishing (Online)  |
| 2021 | <b>Eastern European Machine Learning Summer School</b><br>EEML (Online)  |
| 2021 | <b>4th Modelling Symposium: Introducing Deep Neural Networks</b><br>NeuroWissenschaftliche Gesellschaft (Online) |
| 2021 | <b>Multivariate Statistics</b><br>KU Leuven, Belgium   |
| 2021 | <b>Longitudinal Data Analysis</b><br>KU Leuven, Belgium  |
| 2021 | <b>Introduction to Clustering Analysis</b><br>KU Leuven, Belgium   |
| 2021 | <b>Introduction to Social Network Analysis</b><br>FLAMES   |

2020	<b>Summer School on Affective Neuroscience</b> University of Maastricht
2020	<b>Data Transformations</b> FLAMES
2020	<b>Missing Data Methodology</b> FLAMES
2020	<b>Concepts of Multilevel, Longitudinal and Mixed Models</b> KU Leuven, Belgium
2019	<b>Statistical Parametric Mapping for fMRI and PET</b> University College London
2019	<b>Python for Everybody</b> University of Michigan (Online)

## ACADEMIC APPOINTMENTS

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2019-2023	<b>PhD Candidate (Belgium)</b> Faculty of Medicine, KU Leuven Responsible Faculty: Prof. Dr. Elske Vrieze, Dr. Ir. Jenny Ceccarini, Prof. Dr. Stefan Sunaert
2022	<b>Visiting Student Researcher (USA)</b> Idiographic Dynamics Lab, Department of Psychology, University of California, Berkeley Responsible Faculty: Prof. Dr. Aaron Fisher

## CLINICAL APPOINTMENTS

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2023-ongoing	<b>Psychiatry Resident (Belgium)</b> Zorggroep Sint-Kamillus: iFOR, FRB, FRC Strafinrichting Merksplas
2023-2023	<b>Psychiatry Resident (Belgium)</b> OPZ Geel: Opname-eenheid 1 Netwerp GGZ Kempen: CKB-team
2018-2023	<b>Psychiatry Resident (Belgium)</b> UPC KU Leuven: Angst & Depressie, ADHD/Atmosfeer, Perinatale psychiatrie, Eetstoornissen

## OTHER APPOINTMENTS

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Ad Hoc Reviewer	Appetite Clinical Psychological Science European Eating Disorders Review Frontiers in Psychology International Journal of Eating Disorder Journal of Eating Disorder Psychology of Addictive Behaviors Psychological Medicine
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# HONORS, AWARDS, AND SUPPORT

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2023	<b>Grant for participating in a conference abroad</b> Fonds Wetenschappelijk Onderzoek
2022	<b>Grant for participating in a conference abroad</b> Fonds Wetenschappelijk Onderzoek
2022	<b>Grant for a long stay abroad</b> Fonds Wetenschappelijk Onderzoek
2022	<b>Omkadering Jonge Onderzoekers</b> The Flemish Government
2021	<b>Omkadering Jonge Onderzoekers</b> The Flemish Government
2021	<b>Poster Prize</b> European College Of Neuropsychopharmacology

# PUBLICATIONS

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1. Vrieze, E., & **Leenaerts, N.** (2023). Neuronal activity and reward processing in relation to binge eating. *Current opinion in psychiatry*, 36(6), 443–448.  
<https://doi.org/10.1097/YCO.0000000000000895>
2. Schroyen, G., Sleurs, C., Ottenbourghs, T., **Leenaerts, N.**, Nevelsteen, I., Melis, M., Smeets, A., Deprez, S., & Sunaert, S. (2023). Changes in leukoencephalopathy and serum neurofilament after (neo)adjuvant chemotherapy for breast cancer. *Translational Oncology*, 37, 101769. <https://doi.org/10.1016/J.TRANON.2023.101769>
3. Melis, M., Schroyen, G., Blommaert, J., **Leenaerts, N.**, Smeets, A., Van Der Gucht, K., Sunaert, S., & Deprez, S. (2023). The Impact of Mindfulness on Functional Brain Connectivity and Peripheral Inflammation in Breast Cancer Survivors with Cognitive Complaints. *Cancers*, 15(14), 3632. <https://doi.org/10.3390/cancers15143632>
4. Melis, M., Schroyen, G., **Leenaerts, N.**, Smeets, A., Sunaert, S., Van der Gucht, K., Deprez, S. with Melis, M. (2023). The impact of mindfulness on cancer-related cognitive impairment in breast cancer survivors with cognitive complaints. *Cancer*, 129 (7), 1105-1116. doi: 10.1002/cncr.34640
5. **Leenaerts, N.**, Vaessen, T., Sunaert, S., Ceccarini, J., Vrieze, E. with Leenaerts, N. (2023). How Negative Affect Does and Does Not Lead to Binge Eating-The Importance of Craving and Negative Urgency in Bulimia Nervosa. *Journal Of Psychopathology And Clinical Science*. doi: 10.1037/abn0000830
6. Schroyen G, Schramm G, Van Weehaeghe D, **Leenaerts N**, Vande Castele T, Blommaert J, Koole M, Smeets A, Van Laere K, Sunaert S and Deprez S (2022) Cerebral glucose changes after chemotherapy and their relation to long-term cognitive complaints and fatigue. *Front. Oncol.* 12:1021615. doi:10.3389/fonc.2022.1021615

7. Radwan, A., Decraene, L., Dupont, P., **Leenaerts, N.**, Simon-Martinez, C., Klingels, K., Ortibus, E., Feys, H., Sunaert, S., Blommaert, J., Mailleux, L. with Blommaert, J. (joint last author), Mailleux, L. (joint last author), Blommaert, J. (2023). Exploring structural connectomes in children with unilateral cerebral palsy using graph theory. *Human Brain Mapping*. doi: 10.1002/hbm.26241
8. **Leenaerts, N.**, Jongen, D., Ceccarini, J., Van Oudenhove, L., & Vrieze, E. (2022). The neurobiological reward system and binge eating: A critical systematic review of neuroimaging studies. *International Journal Of Eating Disorders*, 38 pages. doi:10.1002/eat.23776
9. **Leenaerts, N.**, Ceccarini, J., Sunaert, S., & Vrieze, E. (2022). The impact of COVID-19-related smell and taste disorders on a patient with bulimia nervosa: a case report. *Neurocase*, 28(1), 72-76. doi:10.1080/13554794.2021.2024859
10. Demyttenaere, K., **Leenaerts, N.**, Acsai, K., Sebe, B., Laszlovszky, I., Barabassy, A., . . . Correll, C. U. (2021). Disentangling the symptoms of schizophrenia: Network analysis in acute phase patients and in patients with predominant negative symptoms. *European Psychiatry*, 65(1), 10 pages. doi:10.1192/j.eurpsy.2021.2241
11. **Leenaerts, N.**, Vaessen, T., Ceccarini, J., & Vrieze, E. (2021). How COVID-19 lockdown measures could impact patients with bulimia nervosa: Exploratory results from an ongoing experience sampling method study. *Eating Behaviors*, 41, 1-6. doi:10.1016/j.eatbeh.2021.101505

## PREPRINTS

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1. **Leenaerts, N.**, Ceccarini, J., Weygandt, M., Sunaert, S., Vrieze, E. (2022). The effect of stress on delay discounting in bulimia nervosa and alcohol use disorder: a functional magnetic resonance imaging study.. *PsyArXiv*. doi: 10.31234/osf.io/cvqpk
2. **Leenaerts, N.**, Soyster, P. D., Ceccarini, J., Sunaert, S., Fisher, A. J., & Vrieze, E. (2023). Person-specific and Pooled Prediction Models for Binge eating, Alcohol Use and Binge Drinking in Bulimia Nervosa and Alcohol Use Disorder: An Experience Sampling Method Study. <https://doi.org/10.31234/osf.io/9utr4>
3. **Leenaerts, N.**, Vaessen, T., Sunaert, S., Ceccarini, J., & Vrieze, E. (2023). The impact of negative and positive affect on craving, non-heavy alcohol use, and binge drinking in patients with alcohol use disorder and controls: An experience sampling method study. <https://doi.org/10.31234/osf.io/pr2sv>
4. Fisher, A. J., **Leenaerts, N.**, & Victor, S. E. (2023, September 16). A Logical Approach to Necessity and Sufficiency. <https://doi.org/10.31234/osf.io/jt7m4>

## ABSTRACTS, PRESENTATIONS, AND POSTERS

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1. Melis, M., Schroyen, G., **Leenaerts, N.**, Smeets, A., Sunaert, S., Van der Gucht, K., Deprez, S. (2023). The impact of mindfulness on peripheral inflammation in breast cancer survivors with cognitive complaints. Presented at the International Cancer and Cognition Task Force (ICCTF), San Diego, US.
2. **Leenaerts, N.**, Vaessen, T., Sunaert, S., Ceccarini, J., & Vrieze, E. (2022). HOW NEGATIVE AFFECT LEADS TO BINGE EATING: THE IMPORTANCE OF IMPULSIVITY AND CRAVING IN BULIMIA NERVOSA. In Eating Disorders Research Society. Philadelphia, United States of America.
3. Mailleux, L., Radwan, A., Decraene, L., Dupont, P., **Leenaerts, N.**, Simon-Martinez, C., . . . Blommaert, J. (2022). Exploring structural brain connectomes and its impact on sensorimotor function in children with unilateral cerebral palsy. In Developmental Medicine And Child Neurology (Vol. 64, Iss. S3). Barcelona: Wiley. doi:10.1111/dmcn.15214
4. Decraene, L., Radwan, A., Dupont, P., **Leenaerts, N.**, Simon-Martinez, C., Klingels, K., . . . Blommaert, J. (2021). Exploring the cerebral palsy structural connectome and its impact on clinical outcomes. In LBI scientific meeting. Online.
5. **Leenaerts, N.**, Ceccarini, J., Sunaert, S., & Vrieze, E. (2021). Temporal dynamics of impulsivity and craving before and after a binge drinking episode: results from an ongoing experience sampling study. In ESBRA 2021. Timisoara, Romania.
6. **Leenaerts, N.**, Ceccarini, J., Sunaert, S., & Vrieze, E. (2021). Striatal cerebral blood flow changes in patients with recent-onset bulimia nervosa and alcohol use disorder. In ECNP 2021. Lisbon, Portugal.
7. **Leenaerts, N.**, Ceccarini, J., Sunaert, S., & Vrieze, E. (2021). Temporal dynamics of impulsivity and craving before and after a binge eating episode: results from an ongoing experience sampling study. In EDRS 2021. Online.
8. **Leenaerts, N.**, Vaessen, T., Ceccarini, J., & Vrieze, E. (2021). How COVID-19 lockdown measures could impact patients with bulimia nervosa: Exploratory results from an ongoing experience sampling method study. In European Psychiatric Association. Online.
9. **Leenaerts, N.**, Vaessen, T., Ceccarini, J., & Vrieze, E. (2020). Beloningsgevoeligheid bij patiënten met bulimia nervosa: voorlopige resultaten van een experience sampling method studie. In Nationale Academie Eetstoornissen. Beesd.
10. **Leenaerts, N.**, Vaessen, T., Ceccarini, J., & Vrieze, E. (2020). How COVID-19 lockdown measures could impact patients with bulimia nervosa: exploratory results from an ongoing experience sampling method study.. In VAE Congres 2020 'Andere Perspectieven'. Online.
11. **Leenaerts, N.**, Vaessen, T., Ceccarini, J., & Vrieze, E. (2020). Linking stress to impulsivity in recent-onset bulimia nervosa and alcohol use disorder: preliminary results from an ecological momentary assessments study. In European College of Neuropsychopharmacology. Vienna.

12. **Leenaerts, N.**, Vrieze, E., Sunaert, S., Van Laere, K., & Ceccarini, J. (2020). Effects of lifetime alcohol consumption on surface morphometry in alcohol-dependent patients. In Organization for Human Brain Mapping. Montreal.

## MENTORING

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2022-2023	<b>Ellen Boon</b> (Role: Daily Supervisor) Master of Science in Biomedical Sciences, KU Leuven Thesis: The effect of stress on interoception in patients with Anorexia Nervosa.
2021-2022	<b>Lotte Buyle</b> (Role: Daily Supervisor) Master of Science in Biomedical Sciences, KU Leuven Thesis: Reward functioning in patients with Bulimia Nervosa or an Alcohol Use Disorder: Looking at daily life.
2020-2021	<b>Maxime Voet</b> (Role: Daily Supervisor) Master of Science in Biomedical Sciences, KU Leuven Thesis: Stress reactivity is related to higher dopamine release in the prefrontal and cingulate cortex.
2020-2021	<b>Danny Majid</b> (Role: Daily Supervisor) Master of Science in Medicine, Linköping university, Sweden Thesis: Stress and delay discounting in patients with bulimia nervosa: a functional magnetic resonance study

## OTHER ACTIVITIES

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2022	<b>Psychiatry 2.0: Towards a new way of thinking</b> Inter-university seminar (Role: Organizer)
2021	<b>Machine Learning in Psychiatry for Dummies</b> Inter-university seminar (Role: Organizer)
2021-Ongoing	<b>Current Topics in Psychiatry</b> Journal Club (Role: Co-founder)
2015	<b>Summer School of Psychiatry</b> Summer school (Role: Organizer)