

LARS COSTERS

PHD STUDENT IN MEDICAL SCIENCES

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@larscosters

ABOUT ME

I am passionate and motivated about improving the life of people suffering from (neurological) disease and therefore looking for a job in the world of digital health and innovation.

SKILLS



CLINICAL TRIAL
MANAGEMENT



DATA-ANALYSIS



PROGRAMMING



(GRANT) WRITING



CREATIVITY



GRAPHICAL
DESIGN

INTERESTS



NEUROLOGICAL
DISEASE



HEALTH
INNOVATION



BUSINESS
DEVELOPMENT

PUBLICATIONS

- **DOES INCLUDING THE FULL CVLT-II AND BVMT-R IMPROVE BICAMS? EVIDENCE FROM A BELGIAN (DUTCH) VALIDATION STUDY (2017)**
MULTIPLE SCLEROSIS AND RELATED DISORDERS (Q1)
CITATIONS: 6
- **SPATIOTEMPORAL AND SPECTRAL DYNAMICS OF MULTI-ITEM WORKING MEMORY AS REVEALED BY THE N-BACK TASK USING MEG (2019)**
SUBMITTED TO HUMAN BRAIN MAPPING (Q1)

EXPERIENCE

2015

RESEARCH INTERNSHIP

📍 University College London – Institute of Neurology Queen Square

An evaluation of the **efficacy of hyperoxia treatment** on neurological dysfunction and structural damage in a **rodent** model of **Multiple Sclerosis (MS)**. Involved animal handling, neurological function testing, brain and spinal cord tissue handling and immunohistochemistry.

2016

MSC THEORETICAL AND EXPERIMENTAL PSYCHOLOGY

📍 Ghent University

Large distinction – Specialisation in Neuroscience with a heavy focus on **programming** (C, Matlab, R), **statistics** and **digital signal processing**.

2016

START OF PHD IN MEDICAL SCIENCES

📍 Vrije Universiteit Brussel

2017

AWARDED FWO GRANT

📍 Vrije Universiteit Brussel

Awarded a personal FWO research grant for a project focused on investigating the neurophysiology of working memory impairment in MS through MEG.
Coordinated magnetoencephalography (MEG) and magnetic resonance imaging (MRI) data acquisition from 105 subjects among which 65 MS patients over the course of 1.5 years.

2020

PLANNED END OF PHD

Looking for a new challenge

CO-AUTHOR

- **ALTERED TRANSIENT BRAIN DYNAMICS IN MULTIPLE SCLEROSIS: TREATMENT OR PATHOLOGY? (2019)**
HUMAN BRAIN MAPPING (Q1) - 3RD AUTHOR
- **DATA QUALITY SIGNIFICANTLY AFFECTS RESTING-STATE FMRI NETWORK PARAMETERS IN MULTIPLE SCLEROSIS (2019)**
SUBMITTED TO BRAIN STRUCTURE AND FUNCTION (Q1) - 2ND AUTHOR

UNPUBLISHED

- **DYNAMICAL DISEASES: MODELLING THE EFFECT OF STIMULATION-BASED INTERVENTIONS ON INTRINSIC BRAIN DYNAMICS. AN APPLICATION TO EPILEPSY (2016)**
MASTERTHESIS - LARGE DISTINCTION
- **MULTISENSORY INTEGRATION AN ADAPTIVE PROCESS? LOOKING FOR INTERSENSORY BIAS EFFECTS USING THE MCGURK EFFECT AND PIP-AND-POP TASK (2015)**
EPO RESEARCH PROJECT MASTER DEGREE

CONFERENCES AND TALKS

- **LINEAR ALGEBRA FOR NEUROSCIENTISTS (2018)** - 1 WEEK SUMMER SCHOOL RADBOUD UNIVERSITY NIJMEGEN (NETHERLANDS)
- **NEUROTECHNOLOGY APPLICATIONS ON AGING-RELATED DISORDERS (2018)** - 2 WEEK WINTER SCHOOL AT INTERNATIONAL SCHOOL OF NEUROTECHNOLOGY HAVANA (CUBA)
- **EUROPEAN COMMITTEE FOR TREATMENT AND RESEARCH IN MULTIPLE SCLEROSIS (2018, BERLIN)** - POSTER
- **BRAINMODES (2018, HAVANA)** - POSTER
- **INTERNATIONAL MULTIPLE SCLEROSIS COGNITION SOCIETY (2017, DUSSELDORF)** - POSTER
- **SCIENTIFIC TALKS AT NATIONAL MULTIPLE SCLEROSIS CENTER MELSBROEK AND CENTER FOR NEUROSCIENCES PHD DAY**

MEDIA

- **INVLOED VAN VERANDERINGEN IN HERSENSTRUCTUUR EN - ACTIVITEIT OP COGNITIE IN MS** - MSEXPERT EDITION 5
- **BICAMS, EEN KORTE NEUROPSYCHOLOGISCHE TESTBATTERIJ VOOR PERSONEN MET MS** - MSEXPERT EDITION 5

BIO

- 23/04/1993
- BORN IN VILVOORDE
- LIVING IN GHENT
- LICENSED PSYCHOLOGIST
- GOOD CLINICAL PRACTICE CERTIFICATE
- CONTACT:
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 - LARSCOSTERS@GMAIL.COM

PROGRAMMING

MATLAB	● ● ● ● ●
R	● ● ● ●
PYTHON	● ●
HTML	●

LANGUAGES

DUTCH	● ● ● ● ●
ENGLISH	● ● ● ● ●
FRENCH	● ● ● ●
GERMAN	● ●

EXTRA ACTIVITIES

- EDUCATIONAL PROGRAMME COMMISSION OF PSYCHOLOGY AT UNIVERSITY OF GHENT (2014)
- STUDENT REPRESENTATIVE FOR EXPERIMENTAL AND THEORETICAL PSYCHOLOGY AT UNIVERSITY OF GHENT (2014)

HOBBIES

- FOUNDER AND PRESIDENT OF FUTSAL TEAM
- DESIGNING LOGO'S FOR RESEARCH LAB, PHARMACY AND FUTSAL TEAM
- ITALIAN COOKING