Contact Details

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My Experience

2021 - Present Principal Scientist - Innovation

Tasked with researching and creating bespoke analysis methods to monitor, predict and forecast changes in Multiple Sclerosis (MS) based on data derived from smartphones. Inspiration for these approaches has come from complex systems science (e.g. Recurrence Quantification Analysis), optimal control theory (e.g. Licitra et al., 2018), electrical engineering (e.g. Single Input Single Output systems), and neuroscience (e.g. Subtype and Stage Inference).

Company - Neurocast

Duration - 1yr [2021 to present] **Location** - Amsterdam, Netherlands

2020 - 2021 Medior Data Scientist

The main data scientist assigned to conduct analyses in collaboration with the Amsterdam University medical center. This collaboration, intended to validate the use of smartphone interactions as a means to monitor and predict Multiple Sclerosis (MS) outcomes, led to a cross sectional journal article, a responsiveness journal article, and a longitudinal journal article.

Company - Neurocast **Duration** - 1yr [2020 to 2021] **Location** - Amsterdam, Netherlands

2019 - 2020 Machine Learning Engineer

Created a machine learning workflow and conducted an assortment of machine learning analyses (SVM, Random Forests, Multilayer Perceptron etc.) to predict MS outcome measures using keystroke data. These analyses were all internal but an example of an approach similar to what was done may be found here.

Company - Neurocast **Duration** - 1yr [2019 to 2020] **Location** - Amsterdam, Netherlands

2018 - 2019 Junior Data Scientist

Applied nonlinear time series analyses - specifically dynamic complexity to keystroke dynamics in order to match fluctuations in the keystroke data with clinically relevant changes in outcome measures. This culminated in the following journal article: Twose et al, 2020. Also looked into the use of Mixed Effects Random Forests to predict MS outcomes whilst taking into account the hierarchical nature of clinical data and still applying a nonlinear approach

Company - Neurocast **Duration** - 1yr [2018 to 2019] **Location** - Amsterdam, Netherlands

(in contrast to Linear Mixed Models).

2015 - Researcher College ter Beoordeling van Geneesmiddelen (CBG) (medicines evaluation board)

Created a functioning medicines relational database; researched vector autoregressions to predict adverse events; researched scientific advices to change the protocol the CBG uses to regulate antidepressants.

Company - CBG-MEB **Duration** - 1yr [2015 to 2016] **Location** - Utrecht, Netherlands

2015 - Research project at UCR (part time)

Measuring perceived stress levels, coping strategies and physiological correlates in UCR students at times of high and low workload: Selected to undertake this study for the management of University College Roosevelt to influence policy decisions on the protocol the university uses to combat stress in students.

Company - University College Roosevelt **Duration** - 1yr [2015 to 2016] Location - Middelburg, Netherlands

My Education

2016 - Research Master - Behavioural Science

With a special interest in the Dynamics of Complex systems, especially with regards to the quantification of nonlinear time series.

Thesis - Moral ambiguity: how empathy and psychopathy inform moral decision making - a two study approach

Institute - Radboud University **Duration** - 2yr [2016 to 2018]

Location - Nijmegen, Netherlands

2013 - Bachelor of Science - Liberal Arts and Sciences

Major in Cognitive Science and Life Science with a Minor in Psychology.

Institute - University College Roosevelt **Duration** - 3yr [2013 to 2016] **Location** - Middelburg, Netherlands

2010 - International Baccalaureate

Mathematics, French, English, Physics, Chemistry, Psychology Institute - Havant College

Duration - 2yr [2010 to 2012] Location - Havant, United Kingdom

Additional Skills, Achievements and Hobbies

Software Experience

AWS - S3, AWS - EC2, AWS - DynamoDB, AWS - RDS, Microsoft Azure, Visual Studio Code, Pycharm, deta, SPSS, Qualtrics, Nvivo, Microsoft Suite.

Coding Experience























Languages

Native English speaker, articulate in Dutch, articulate in French.

Extra Curricular Activities

Maizena - Chair (2017 - 2018)

Elected to chair the student association for the Behaviour Science Master at Radboud University

UCR CogniCo - Founder and Chair (2014 - 2015) Created a student group (now called) 'UCR CogniCo' to explore Cognitive Science with fellow students

organising lectures, brain dissections and revision sessions.

UCRadio - Chair (2015)

Elected chair of UCR radio, which was ineffective. Leading a small team, we re-invigorated it, brought in a new structure and created content for it.

Cultureweek - Secretary (2015)

Cultureweek is a week dedicated to bridging the gap between the student population and the general population of Middelburg, by celebrating the differences between the two. As secretary I was pivotal in its organisation.

Housing Affairs Council (HAC) - Campus Elder (2013 - 2014)

The HAC is a student organisation that is the intermediary between the student population and the UCR housing association. As Campus Elder, I was responsible for the daily functioning and dealing with any problems that arose in one of the three major campus locations.

Music

Singer/Songwriter/Producer 2013 – Present Created own music company - Awry Records (2016) KvK: 66919754 Passionate and active musician, writing, performing and producing my own works as well as in collaboration with other musicians.

Vocaholics - Co founder (2013 - 2015)

Created an Acapella group (with a fellow student) at University College Roosevelt (UCR), arranging weekly practice sessions and local performances for UCR and the Municipality.