

# CV – Nelson Mooren, M.Sc.

Amsterdam, the Netherlands

email: [hello@nelson.science](mailto:hello@nelson.science)

website: <http://nelson.science/>



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## Experience

May 2018 **DevOps Engineer Fraud Detection**  
– present Rabobank ICT, Utrecht

Write Java code: plugins for fraud detection systems, applications for system integration and communication.

Serve development team as scrum master: coach team members in working with the scrum framework, plan and host scrum meetings, coordinate with product owner on sprint planning.

Feb. 2017 **TalentWings Trainee**  
– present Procam, Amersfoort

Two year trainee programme in which recent graduates are prepared for a position in the IT sector.

Feb. 2017 **Software Developer**  
– Jan. 2018 InTraffic, Nieuwegein

Wrote C++98 code for traffic control systems for the Dutch railways (procesleiding, ProRail). Refactored communication interface in preparation for migration from OpenVMS to RedHat Linux. Implemented Google Protocol Buffers (API) for importing of data in XML-format.

Introduced the department to Git Flow and assisted colleagues in adopting the framework to ease collaboration between multiple development teams.

Sept. 2015 **Council member, treasurer**  
– Aug. 2016 Faculty Student Council, Faculty of Science, University of Amsterdam

formally advising the dean and management as member of the student's representative body at the faculty. Held regular meetings with the dean, management and policy makers of the faculty. Researched, discussed and wrote advises on a number of topics, including: the honours programme, interdisciplinarity, diversity, and online information for the student. As treasurer I kept track of the council's financial situation, coordinating with the university's financial managers. I performed financial planning, bookkeeping and budgeting, working with a buget of €9.000.

Sept. 2014 **Board member, treasurer**  
– Aug. 2015 Cognito student union, *Amsterdam*

Cognito is the student union for the master's Brain & Cognitive Sciences. Organised social and study-related activities, held regular meetings with members of the master's staff, and helped set up Cognito's website. As treasurer I kept track of the union's financial situation, performed financial planning, bookkeeping and budgeting, working with a budget of approximately €10.000.

Oct. 2013 **Writer and editor, newsletter committee**  
– Aug. 2015 Cognito student union, *Amsterdam*

Wrote and edited articles for the monthly newsletter. Responsible for typesetting the newsletter using Adobe InDesign.

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## Education

Sept. 2013 M.Sc. in **Brain & Cognitive Sciences** (research)  
– Jan. 2017 Major: Cognitive Science  
University of Amsterdam, *Amsterdam*

THESIS: The Role of the Hippocampus and the Frontal Cortex in Encoding Predictions About the World  
Supervisors: V.L.E. Perdomo & Dr. H.A. Slagter

RESEARCH PROJECT: Population receptive field responses to local contrast, Spatial Coherence and Feature Energy variation.  
Supervisor: Dr. H.S. Scholte (Brain and Cognition, University of Amsterdam).  
Ran an experiment to investigate population receptive field mapping in humans using 3T functional MRI. Generated visual stimuli and set up the experimental task using Matlab. I assisted in running the experiment. I performed the analysis together with another student.

RESEARCH PROJECT: Analysis of dancers in a silent disco.  
Supervisor: Dr. J.A. Burgoyne (Music Cognition, ILLC, University of Amsterdam).  
I set up a motion tracking toolbox in Python for the processing of overhead video footage of silent discos. I analysed the generated data in Python using network analysis.

Sept. 2009 **B.Sc. in Psychobiology**  
– Jun. 2013 **Minor: Artificial Intelligence**  
University of Amsterdam, *Amsterdam*

THESIS: Weibull image statistics influence performance in rapid serial visual presentation (RSVP).

Supervisor: Dr. H.S. Scholte (Brain and Cognition, University of Amsterdam).

I designed, set up and ran a behavioral experiment, coded in Matlab. I processed and analysed the generated data, finding that variation in image statistics facilitates rapid object detection in images of natural scenes.

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## Additional Online Coursework

- Fall 2017 **Object-Oriented Programming**  
IIT Bombay, *Bombay* (via EdX)  
Completed with a score of 77%
- Spring 2016 **Confronting The Big Questions: Highlights of Modern Astronomy**  
University of Rochester, *Rochester* (via Coursera)  
Completed with a score of 84%
- Fall 2014 **International Politics in the Korean Peninsula I**  
Seoul National University, *Seoul* (via EdX)  
Lectures in Korean with English subtitles.  
Completed with a score of 71%.
- Fall 2011 **Introduction to Artificial Intelligence**  
Stanford University, *Stanford* (via Udacity)  
Completed with a score of 73.6%
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## Volunteer & Other Experience

- Mar. 2016 **Social media management** (volunteer)  
– present Dreamcatcher foundation, *Melkhoutfontein*, South Africa
- Mar. 2008 **Freelance Photographer**  
– present Commissioned as well as non-commissioned work.
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## Skills and proficiencies

Computer languages: Python, C++, Matlab, L<sup>A</sup>T<sub>E</sub>X, R, Markdown, HTML&CSS.

Human languages (fluent): Dutch, English.

Human languages (basic): French, German, Korean.

Software & tooling: Git, Unix, SPSS, Adobe Creative Suite.