Resume Roland Meertens

Personal information

Name	**Roland Meertens**
Born	**5 November 1990, Nijmegen**
Nationality	**Dutch**

Education

Masters degree Artificial Intelligence   September 2012 - March 2015

At the Radboud University Nijmegen with a specialisation in Cognitive Artificial Intelligence and Brain Computer Interfacing. Title of masters thesis: "A Scalable Mixed Initiative Dialogue Manager".

Bachelor's degree Artificial Intelligence   September 2009 - April 2013

Radboud University Nijmegen. Title of bachelors thesis: "Gesture based flight control".

Work experience

Research Engineer Localisation Infor   September 2016 - current

Changed parts of our translation software to Neural Machine Translation, and worked on automatic post-editing methods. Thanks to my work on estimating translation quality the percentage of usable machine translated sentences that was sent to the translators went from 55% to 76%.

Researcher at Technical University Delft April 2015 - September 2016

Worked on monocular indoor localisation, and obstacle avoidance using stereo camera's at the Micro Aerial Vehicle Lab. Algorithms were implemented that could do this with small amounts of computing power to keep all computing onboard. Although I worked mostly on the software side, I also learned a lot about working with hardware.

Internship at SpirOps in Paris   January 2014 - July 2014

Created a dialogue management system for project Romeo. The goal of the project was building a system that can be used in healthcare to assist elderly people to keep their own lifestyle with little intervention from the outside world.

Projects at Pinch of Intelligence   August 2014 - current

In 2014 I founded the company Pinch of Intelligence (see `www.pinchofintelligence.com`) and created several small projects. As I discovered I was more interested in creating than in selling and marketing I changed my site to a blog in 2016. Interesting project I made are: A demonstration to demonstrate how effictive human guidance is for an AI for the game Super Mario Bros was published at the BNAIC in 2014, a 3D visualiser for MEG data web browsers that can be used with existing virtual reality devices, and a music recommender system for people that are learning a foreign language (which can still be found on `www.duomusico.com`).

Editor in chief of De Connectie   November 2012 - August 2015

Magazine for AI students (and others that are interested) made by students from several universities in the Netherlands. The magazine was not released for a long time and together with the new editorial office we made 4 new editions with of 450 per edition.

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President of study association CognAC   **September 2011 - Oktober 2012**

The study association had 160 members and a budget of 3000 euro for activities. The goals of having more activities including bigger activities, gathering more sponsorship and having more study meetings for students were all reached during that year.

Manager robotics lab Radboud University   **August 2013 - March 2015**

Taught students how to use the robots in the lab. This includes programming, troubleshooting and writing tutorials. Robots available in the lab were: a Nao, Parrot Drone, Lego NXT and Sphero.

Teaching assistant for several courses   **March 2011 - June 2014**

Three years for the bachelor course Human-computer interaction (90 students). One year for the bachelor course Research methods (150 students), and one year for the master course Research methods (8 students).

Extracurricular activities

Organisation of Forceparty   **February 2010 - February 2014**

Organised LAN-party's with a of visitor count between 90 and 150 people per edition.

Committees at study association "CognAC"   **September 2009 - March 2015**

Was a member of 8 committees, and was chairman of the study committee, sporting committee, educational paper committee, and the introduction comittee.

Performance in relevant competitions

Datathon sustainable fishing: first place

http://www.pinchofintelligence.com/looking-back-at-my-first-datathon

IROS autonomous drone race: second place

http://mavlab.tudelft.nl/tu-delft-first-autonomous-drone-race/

Mario AI contest CognAC: first place

Turned my entry into a BNAIC 2014 conference demonstration:

http://bnaic2014.org/?page_id=154

More information

Personal blog http://www.pinchofintelligence.com
Collaborative blog http://www.andereintelligentie.nl/
Github https://github.com/rmeertens

PUBLICATIONS

[1] Kimberly Mcguire, Guido De Croon, Roland Meertens, K Tuyls, and H J Kappen. Efficient Optical Flow Computation for Velocity Control on a Micro Aerial Vehicle. pages 2–3.

[2] Roland Meertens. Teaching Mario . Demonstrating the effectiveness of human guidance in reinforcement learning. In *Proceedings of the 26th Belgium-Netherlands Artificial Intelligence Conference*, volume 2014, pages 185–187, 2014.

[3] Clint Nous, Roland Meertens, Christophe De Wagter, and Guido De Croon. Performance evaluation in obstacle avoidance.

[4] Amit Kumar Pandey, Rodolphe Gelin, Rachid Alami, Renaud Viry, Roland Meertens, Mohamed Chetouani, Laurence Devillers, David Filliat, Yves Grenier, and Mounira Maazaoui. Romeo2 Project : Humanoid Robot Assistant and Companion for Everyday Life : I . Situation Assessment for Social Intelligence. In *International Workshop on Artificial Intelligence and Cognition, 2nd Edition*, pages 140–147, 2014.

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