

# Rik L.E.M. Ubaghs

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## Education

**Federal Institute of Technology Zurich, Zurich, Switzerland**

July 2017 - Current

*Ph.D. Candidate Neuroinformatics*

**University of Amsterdam, Amsterdam, the Netherlands**

Sept 2014 - June 2016

*Research Master Brain and Cognitive Sciences, Cum Laude (Top of Class)*

**Maastricht University, Maastricht, the Netherlands**

Sept 2011 - June 2014

*Bachelor Psychology and Neuroscience, Cum Laude*

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## Skills

**Languages:** Dutch (Native), English (Fluent), German (Basic)

**Programming:** Python, SQL, Matlab, LABView

**Skills:** CAD and manufacturing, Biomedical Imaging, Microscopy

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## Research Positions

**Institute of Neuroinformatics, Federal Institute of Technology Zurich, Zurich, Switzerland**

July 2017 – Current

*Ph.D. Candidate*

- Development of a miniaturized fluorescence microscope designed to work in highly magnetic environments (full-cycle product design).
- Design of a paradigm to combine microscopy and other biomedical imaging methods in awake rodents.
- Design of data pipelines for multi-modal data analysis.

**Center for Neuroengineering, Duke University, Durham, USA**

Jan 2016 – Sept 2016

*Visiting Scientist*

- Development of hybrid brain decoding methods in Non-human Primates.

**Swammerdam Institute for Life Sciences, Amsterdam, The Netherlands**

Aug 2015 – Dec 2015

*Internship*

- Experimental design for sensory integration in rodents.
- Design of data analysis methods for high dimensional data.

**Spinoza Center for Neuroimaging, Amsterdam, The Netherlands**

Nov 2014 - Dec 2015

*Junior Research Scientist*

- MR operator.
- Design and supervision of several large research projects.

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## Industry Positions

### **Agora Technology, Maastricht, The Netherlands**

Nov 2016 - Feb 2018

#### *Founding CEO*

- Agora Technology aims to build quality data solutions to streamline/automate daily operations in the medical sector.
- Creation, maintenance, and analysis of large-scale data solutions using advanced machine learning approaches.

### **Medtronic/Maastricht University Medical Centre, Maastricht, The Netherlands**

Dec 2016 - Jun 2017

#### *Data Scientist*

- Design of a pipeline to process medical procedural data.
  - Development of a centralized database for surgical protocols.
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## Extracurricular Positions

### **Natural Movements, Heerlen, The Netherlands**

March 2007 - May 2012

#### *Co-Founder*

- Natural Movements is a non-profit organization that aims to engage underprivileged youth in the local community through behavioral coaching and physical education.
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## Honors

### **Committees:**

Educational Committee, IIS, University of Amsterdam

Sept 2014 - June 2015

Vice-President Student Council, FPN, Maastricht University

Sept 2012 - June 2013

Program Committee, FPN, Maastricht University

Sept 2012 - June 2013

### **Grants:**

Hendrik Muller Memorial Fund

2016

Bekker - La Bastide Memorial Fund

2015

Vrijvrouwe van Renswoude Fund

2015