MIKKEL ROALD-ARBØL

M.Sc. Human Biology

📍 Copenhagen, Denmark
✉ Frederiksborgvej 83, 4.th, 2400 København NV
@ mikkel_roald@hotmail.com
📞 +45 20320399
in http://www.linkedin.com/in/mikkel-roald-arbol

SUMMARY

A young researcher looking to put his data science skills and knowledge to good use. With a background in physiology and neuroscience I have experience with all aspects of the research cycle; from developing experimental setups, planning and executing experiments to collecting and analysing data.

PROJECTS

Development of low-cost behavioural setup for rat experiments

University of Copenhagen

📅 November 2019 – Ongoing   📍 Copenhagen, DK

- Developed software in **Python** for experimentation, data collection and export as well as integration with neural recordings and stimulation.
- Built electrical circuitry with GPIO pins on a **Raspberry Pi**.

The use of vision in ants

University of Sussex

📅 September 2018 – Ongoing   📍 Brighton, UK

- Established and refined a **virtual reality** setup for investigating the behaviour of small insects.
- Planned and carried out experiments concerning the visual control of walking behaviour in an **ant**.
- Imported, transformed and exported data using **R** with packages from the Tidyverse.
- Analysed and visualised large data sets in R. Inferential work included normal parametric tests, **non-parametric tests** (e.g. Mann-Whitney U test, Spearman Rank Correlation, Kullback-Leibler divergence), **generalized linear modelling** with various links, and **Bayesian estimation**.
- *Currently writing a draft for a scientific paper*.

Human motor control and neuromechanics

University of Queensland

📅 October 2016 – April 2017   📍 Brisbane, AU

- Performed motor control experiments with human subjects using custom written code in **MATLAB**.
- Used various techniques, including transcranial magnetic stimulation (**TMS**), electroencephalography (**EEG**), electromyography (**EMG**), motion tracking and eye-tracking.

EDUCATION

M.Sc. in Human Biology

🏛 **University of Copenhagen**

📅 Sept 2017 – Oct 2019

Statistics with R Specialization

🏛 **Coursera, Duke University**

📅 February 2019 – August 2019

B.Sc. in Exercise and Sports Sciences

🏛 **University of Copenhagen**

📅 Sept 2013 – June 2016

HONOURS & GRANTS

🏆 **2019, Tanja Ravnholt Prisen**
2nd Place, Dansk Atletik

🏆 **2019, Art in Science (Photo comp.)**
Winner, Category: Best Instrument

🏆 **2018, Knud Højgaards Fond**
Travel Grant

🏆 **2018, Young Leader of the Year**
2nd Place, Dansk Atletik

🏆 **2018, Erasmus+**
Traineeship Grant

🏆 **2018, Fam. Hede Nielsen Fond**
Travel Grant

🏆 **2018, Oticon Fonden**
Travel Grant

IT SKILLS

R | MATLAB | Python | LaTeX
Statistical Analysis | Physical Computing
MS Office

LANGUAGES

Danish ●●●●●
English ●●●●●
Spanish ●●●●○
German ●●●○○