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Tomas Fiers

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github | twitter

Current position

PhD in Computational Neuroscience **Feb 2020 - Dec 2023 (expected)**
University of Nottingham *Nottingham, UK*

Topic: *Synapse-level network inference from voltage imaging signals*

Supervisors: Mark Humphries & Matias Ison (University of Nottingham)

{skills gained & exercised during PhD}

Outreach: "Julia for Scientists" | {Cosyne22 and Comob}: Teaching Assistant & technical infrastructure

Work Experience

Software Engineering Intern **Mon Year - Mon Year**
DataCamp *Leuven, Belgium*

- Designed hardware schematics and PCB diagrams that received and processed input signals by using AltiumDesigner.
- Developed FPGA module that measured frequencies of multiple signal by using verilog programming and ModelSim simulating skills, and achieved 99.9% accuracy.

Software Test Engineer **Mon Year - Mon Year**
Byteflies (medical wearables/IoT startup) *Antwerp, Belgium*

- Achieved 1000+ test cases for monitor software using functional and automated testing skills.
- Optimized test cases that improved test coverage and guaranteed reliability of software version updates.

Internship **Mon Yedar - Mon Year**
Fluves *Ghent, Belgium*

- Learned the detailed principles and operations of CT and other medical instruments in practical, deeply understood the application.

Education

Master of XX **Mon Year - Mon Year (expected)**
XX university

Main courses: Digital Signal Processing, Digital Image Analysis, Combinational Mathematics

Bachelor of XX **Mon Year - Mon Year**
XX university

Main courses: Signal and Systems, Analog and Digital Circuits, Data Structures, C Programming

Project

Research on XX **Mon Year**
Bachelor's Thesis

- Compared the reservoir computing grid model before and after the addition of positive and negative emotion regulation mechanisms by using Matlab programming.
- Improved the accuracy of the algorithm in predicting the spatial and temporal evolutionary features of the dynamical system by adjusting the activation function and specific parameters of the neural grid.

Skills

Programming	Python, Java, C, ,C++, Git, LaTeX, Matlab, MarkDown
Hardware Design	Verilog, Quartus2, ModelSim, AltiumDesigner
Communication	Chinese (native), English (business), Japanese (beginner)
Other	Github, Microsoft Office