

Tomas Fiers

Education

- Sep 2016 – Jan 2019 **MSc (*burgerlijk ingenieur*), Biomedical Engineering** – KU Leuven, Belgium
Electives in artificial intelligence & machine learning, advanced statistical methods for data-analysis, and neuroscience.
Master's thesis: *Real-time detection of memory-related voltage patterns in the brain through spatiotemporal filtering*
Supervisors: Alexander Bertrand (STADIUS center for dynamical systems, signal processing, and data analysis) and Fabian Kloosterman (Neuro-Electronics Research Flanders)
- Sep 2012 – Jun 2017 **BSc, Computer Science & Electrical Engineering** – KU Leuven, Belgium
Won the team “problem-solving and design” competitions both in the first and the second year.

Scientific positions

- Apr 2019 – Present **Neuro-Electronics Research Flanders** – Leuven, Belgium
Research engineer. Validate master thesis work using multiple animals and probe types; prepare publication as a journal paper.
Supervisors: *idem as master's thesis*
- Jul 2017 – Sep 2017 **Byteflies** – Antwerp, Belgium
Signal processing intern. Validate signal quality of motion sensors (accelerometer, gyroscope, magnetometer) against golden standard (motion capture), for use in a medical device.
Supervisor: Benjamin Vandendriessche (PhD), Chief Medical Officer

Poster presentations

- Oct 2018 **Cell-NERF Symposium: Neurotechnologies** – Leuven, Belgium
“Early detection of hippocampal sharp wave-ripples”
- Dec 2017 **NERF Retreat** – Leuven, Belgium
“Real-time detection of sharp wave-ripples through spatial filtering”

