

Jacques KAISER

Resumé

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French, 27 years old



Education

- 2015–Present **PhD in Neurorobotics**, *Human Brain Project*, Karlsruhe.
Learning action from event-based vision with spiking neural networks.
- 2014–2015 **Master 2 MoSIG**, *ENSIMAG & IM2AG*, Grenoble, France.
International degree in Graphics, Vision and Robotics.
- 2012–2013 **Master 1**, *Strasbourg University*, France.
Computer science and science of images.
- 2009–2012 **BSc. Computer Science**, *Strasbourg University*, France.
3rd year Erasmus in **Durham University**, England.

Vocational Experience

- Aug.–Present **Research Scientist**, *FZI Forschungszentrum Informatik*, Karlsruhe, ISPE.
2015 Involved in various robotics projects for solving vision tasks and implementing web interfaces.
- Feb.–July **Master Thesis in Sensor Fusion**, *INRIA*, Grenoble, e-Motion.
2015 Evaluation of a closed-form solution solving the visual-inertial structure from motion problem.
- Feb.–July **Full-Stack Web Developer**, *Shwish*, Melbourne, Australia.
2014 Shwish was a collaborative gifting platform. Within a core team of two developers, we built the platform from scratch using the MEAN stack: MongoDB, Expressjs, Angularjs, Nodejs.
- June–Oct. **JavaScript/WebGL Developer**, *Skimlab*, Strasbourg, skimlab.com.
2013 Skimlab provides an online 3D modeling tool based on implicit surfaces for 3D printing. Working on the rendering pipeline, I developed shaders for environment mapping, point cloud rendering and raytracing.
- 2012–2013 **Individual tutor in mathematics for high school students**, *Complétude*.
- June–Aug. **Research intern in Computer Graphics**, *iCube*, Strasbourg, IGG.
2012 Development of an application for deforming mesh on a virtual reality platform.
- June–Aug. **Research intern in Computer Graphics**, *iCube*, Strasbourg, IGG.
2011 Interactive 3D cursor to ease the perception of depth in virtual reality applications.

Languages

French Mother tongue
English Fluent
German B2

Born in Strasbourg
Lived in England and Australia
Handle day-to-day conversation

Technical Skills

- Python
- Javascript
- PyTorch
- Linux
- C++
- Angularjs
- ROS
- OpenCV

Extracurricular Activities

Juggling Coordination

Slacklining Balance and focus

Ultimate Team play

WWOOFing Travel and discover new cultures

Ukulele Easy access to the music world

Dancing Improved leading skills

Rollerskating Founding member of the Association Des Sports Extrêmes de Vendenheim (ASEV)

Volunteering Volunteer at the RACV Great Victorian Bike Ride 2013, Australia

OpenScience

- Presented Spiking Neural Networks at Karlsruhe AI Meetup Group 2017.
- Presented Neurorobotics at Pint of Science 2018, Strasbourg