

Education

- 2016 - (2017) **M.Sc. in Computer Science — M2 MVA**, *École normale supérieure de Cachan (Cachan)*
Applied Mathematics, Machine Learning, Graphical Models, Reinforcement Learning, Computer Vision, Medical Imaging, Computational Photography, 3D Point Clouds
- 2014 - 2015 **M.Sc. in Computer Science — M1 MPRI**, *École normale supérieure (Paris)*
Category theory, Computer Vision, Machine learning, Robotics, Software engineering, Quantum Computing.
- 2013 - 2014 **B.Sc. in Computer Science**, *École normale supérieure (Paris)*
Algorithmics, Compilation, Formal languages, Lambda calculus, Hardware systems, Operating systems, Networks, Signal processing. Passed with Mention Très Bien (highest honors)
- 2011 - 2013 **Classes Préparatoires aux Grandes Écoles (MPSI, MP*)**, *Lycée Saint-Louis (Paris)*
Admitted at the École normale supérieure in Mathematics, Physics and Computer Science, ranked 20 (out of 1480)
- 2011 **Scientific Baccalauréat**, *Lycée Les Pierres Vives (Carrières sur Seine)*
With music minor, Passed with Mention Très Bien

Experiences

- Apr. 2017 - **Research intern in Computer Graphics**, *Télécom ParisTech, Paris, France*
(Aug. 2017) Geometry-Material-Lighting synchronized models for multi-resolution real-time rendering, supervised by Pr. Tamy Boubekeur.
- Feb. 2016 - **Software Developer**, *rise|fx, Berlin, Germany*
Aug. 2016 Development of pipeline tools for Visual Effects artists.
- Nov. 2015 - **Independent Contractor in Deep Learning R&D**, *Interactions, Tele-working*
Feb. 2016 Assist with Deep Neural Networks optimization activities for Automatic Speech Recognition. Development of a flexible experimentation setup.
- May - Oct. **Research intern in Deep Learning**, *Interactions, New York, US*
2015 Exploration of applications of Deep and Recurrent Neural Networks to Automatic Speech Recognition, supervised by Dr. Patrick Haffner.
- June - July **Research intern in Computer Graphics**, *IMAGINE, Inria Grenoble, France*
2014 Procedural generation of terrain from simple vector map using plate tectonics and erosion simulation on GPU, supervised by Pr. Marie-Paule Cani.
- 2014 - 2015 **Developer and designer of CitizenWatt**, *<http://citizenwatt.paris>*
Electrical consumption sensor and easy-to-use data visualization interface, supported by Paris city hall.

Other Skills

Computer Programming

Python, C, C++, C#, Lua, OCaml, Java, MATLAB.
Various programming paradigms and software architecture.

Deep Learning

Neural Net architectures (DNN, RNN, CNN).
Deep Learning tools (Torch, Theano, TensorFlow).

(Computer) Graphics

UI Design, Vector and pixel graphics, 3D modeling.

Web technologies

HTML, CSS, JavaScript, NodeJS, PHP.

Languages

French (mother tongue), English (business level), German (*ein bisschen*).

Music

Harpichord (5 yrs), Guitar (2 yrs), Piano (2 yrs).
Studied solfège, and a bit of Music History.

Interests

Internet and Indie Web

Self-hosted web services and linux server administration.

Hacking and electronics

Member of the ENS hack-lab, hackEns (<http://hackens.org/>)

Sociology

Especially related to digital worlds

Photography

Pedagogy

Climbing, Mountaineering

Publications

2015 **Generation of Folded Terrains from Simple Vector Maps**

Élie Michel, Arnaud Emilien, Marie-Paule Cani. In *Eurographics*. 2015. [\[PDF\]](#)

Contact

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Personal details

Born on December, 4th, 1993
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French citizen