

- **4** 16/01/1992 (Montpellier, France)
- Aillevans, France
- sicard.research@gmail.com
- m www.linkedin.com/in/damien-sicard
- github.com/altar31

My name is Damien Sicard, a French former electrician, turned engineer and future researcher. Although, I pursue a PhD in Physics-Chemistry, my research journey led me to write code on a daily basis and shift my research interests toward applications of Artificial Intelligence algorithms. Thus, I became passionate about software engineering and the open source way to craft software. Finally, after my PhD defense (April-June 2023), I will be looking for a research position involving application of AI algorithms in science.

EDUCATION

Ph.D. in Physics-Chemistry

Development of a flash sintering process, scientific codes and AI for computer vision.

- University of Burgundy Diamatec company
 - September 2019 present 🗯

Master's degree in Energy Engineering

General engineering degree with a major in energy University of Technology of Belfort-Montbéliard •

2015 - 2019 🖶

French « Grandes Ecoles » exams

French engineering schools exams' preparation

- Henri Parriat High School
 - 2012 2015 🗯

Electrician technical degree

Professional electrician studies

- Henri Parriat High School
 - 2008 2012 🗯

SELECTED PUBLICATIONS

Deep Learning and Bayesian Hyperparameter...

- D. Sicard et al. .
- Applied Sciences (2022) ■
- DOI: 10.3390/app122412606 &

PROJECTS

JAX: Autograd and XLA

Aspirant JAX contributor

- iax.readthedocs
- github.com/google/jax n

WORK EXPERIENCE

Researcher in an industrial setting

- Development of flash sintering process
- Magnetodynamics finite element code
- Deep Learning (U-Net) for computer vision semantic segmentation applications
- University of Burgundy Diamatec company
- **ă** September 2019 − present

R&D Engineer

- Led company doctoral grants submission
- Studies of Diamond Grinding Wheels (DGW) manufacturing
- Diamatec
- Mars 2019 September 2019

SKILLS & LANGUAGES

Computer

- O Python
- Tensorflow
- ●●○ Pandas/Numpy
- O JAX

Other tools

- Scikit-learn
 Matplotlib
 Neptune/W&B
- FreeFEM/FEniCSx (scientific computing)

Languages

- French (native)
- English

PERSONAL INTERESTS

- Open source)
- Cookery enthusiast
- Running)
- Avid traveler