

- **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 or (and) engineering position involving writing code for solving problems.

#### **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 o

### **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
- **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
- ••• Fytholi
  ••• 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