



**Damien
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(he/him)

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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-May 2023), I would like to pursue a career in **IT**.

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

Pandas : Python Data Analysis Library

Aspirant **Pandas contributor**

pandas.pydata.org 🌐
github.com/pandas-dev/pandas 🐙

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

●●○ Python ●●○ Pandas/Numpy
●●○ Tensorflow ●○○ AWS

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