Damien SICARD
(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-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

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