



DEKHTIAR Jonathan

<http://www.jonathandekhtiar.eu>

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Objective : Research Engineer in Computer Vision, Data Science, Machine and Deep Learning applications.

ACADEMIC

PHD IN DEEP LEARNING AND COMPUTER VISION

UNIVERSITY OF TECHNOLOGY OF COMPIEGNE

Oct. 2015 – Expected End: Nov. 2018 | Compiègne, France

COMPUTER SCIENCE AND DATA SCIENCE ENGINEER

UNIVERSITY OF TECHNOLOGY OF COMPIEGNE

September 2010 – July 2015 | Compiègne, France

ERASMUS IN COMPUTER SCIENCE, DATA MINING

TECHNISCHE UNIVERSITÄT HAMBURG-HARBURG

April 2014 – July 2014 | Hamburg, Germany

ERASMUS IN COMPUTER SCIENCE, ALGORITHMIC

TECHNISCHE UNIVERSITÄT WIEN

February 2012 – June 2012 | Vienna, Austria

EXPERIENCES

UTC | PHD IN DEEP LEARNING AND COMPUTER VISION

Oct. 2015 – Expected End: Sep. 2018 | Compiègne, France

- Deep Learning with Convolutional Networks using Tensorflow, and and Caffe libraries to classify and segment industrial mechanical components and assemblies.
- Study on Adversarial Auto-Encoders, Generative Networks, and Variational Auto Encoders aiming to detect manufacturing defects (e.g impacts and scratches) on manufactured products on the production line.

DELTACAD | C++/PYTHON DEVELOPER & DATA ANALYST

February 2015 – July 2015 | Lacroix Saint-Ouen, France

- Application development in C++ to perform mechanical parts recognition using OpenCV (C++) and Scikit-learn (Python).
- Benchmark (speed and accuracy) of different supervised learning models (KNN, SVM, Decision Trees, ...).
- Web API Development with Django on the AWS Cloud (Amazon).

VALEO | INTERN - BUSINESS AUTOMATION ANALYST

September 2013 – February 2014 | Annemasse, France

- Decision Support system development to detect incoherent or redundant textual data in the ERP (SAP) with text-mining.
- Text-Mining and Statistical Analysis to detect user-inputs similarity.

PUBLICATIONS

J. Dekhtiar, A. Durupt, M. Bricogne, B. Eynard, H. Rowson, and D. Kiritsis.

Deep learning for big data applications in CAD and PLM – research review, opportunities and case study. *Computers in Industry*, 100:227 – 243, 2018. doi: <https://doi.org/10.1016/j.compind.2018.04.005>.

ACTIVITIES & LEISURE TIME

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|-------------|---------------|--|
| 2017 | Aviation | Private Pilot in General Aviation |
| 2017 | Data Venture | Machine and Deep Learning Instructor |
| 2014 - 2015 | TEDxCompiègne | President Founder of TEDx Talks at UTC |

ADDITIONAL COURSES

- Stanford CS224d MooC: Deep Learning for Natural Language Processing
- Stanford CS231n MooC: Convolutional Neural Networks for Visual Recognition

PERSONAL PROJECTS

- Curation Platform and scientific watch with recommender system: feedcrunch.io
- **Technical Blog:** Posts and Workshops about Machine Learning: born2data.com
- **TensorLayer:** Core Team Member. TensorLayer offer a high-level API for Tensorflow targeting researchers & engineers: github.com/tensorlayer/tensorlayer (3.8k ★)

COMPETENCES

PROGRAMMING

- Python • C++ • Tensorflow • Scikit-Learn
- TensorLayer • Docker • PyTorch • OpenCV

Familiar with:

- Django • R • Unsupervised Learning

LANGUAGES

- **English:** Fluent (Written / Read / Spoken)
- **TOEIC:** 975/990 (obtained in 2014)
- **German:** Correct (Written / Read / Spoken)
- **French:** Native Speaker

LINKS

- Website: JonathanDekhtiar.eu
- Github: [DEKHTIARJonathan](https://github.com/DEKHTIARJonathan)
- LinkedIn: [Jonathan DEKHTIAR](https://www.linkedin.com/in/JonathanDEKHTIAR)
- Twitter: [@Born2Data](https://twitter.com/Born2Data)
- Technical Blog: born2data.com
- ResearchGate: [Jonathan DEKHTIAR](https://www.researchgate.net/profile/Jonathan-DEKHTIAR)
- Google Scholar: [Jonathan DEKHTIAR](https://scholar.google.com/citations?user=JonathanDEKHTIAR)
- RSS Feed: feedcrunch.io/@dataradar
- Photography: ruskistudio.com