



# DEKHTIAR Jonathan

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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. To be published in Journal Computers in Industry, 2018.

## ACTIVITIES & LEISURE TIME

- |             |               |  |
|-------------|---------------|--|
| 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
- Google MooC: Deep Learning & Tensorflow

## PERSONAL PROJECTS

- Curation Platform and scientific watch with recommender system: [feedcrunch.io](http://feedcrunch.io)
- Technical Blog: Posts and Workshops about Machine Learning: [born2data.com](http://born2data.com)

## COMPETENCES

### PROGRAMMING

- Python • C++ • Scikit-Learn • Tensorflow
- Keras • Bokeh • Caffe • OpenCV • Django
- Hadoop • Spark • Oracle • PostgreSQL

Familiar with:

- R • Theano • Transfer Learning • Docker
- Security • Networks • SAP • VBA

### LANGUAGES

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

## LINKS

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