

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: Sep. 2019 | Compiegne, 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

NVIDIA | DEEP LEARNING SOFTWARE ENGINEER October 2018 – Present | Tel Aviv. Israel

- Performance analysis and optimization of various computer vision deep learning models implemented with Tensorflow.
- Low-level optimizations for sparse tensors computations. Proof-of-concept designs: sparse gradient, sparse communication for multi-GPUs training, sparse recommender systems, model compression and edge computing.

UTC | PHD IN DEEP LEARNING AND COMPUTER VISION October 2015 – September 2018 | Compiègne, France

- Study on Convolutional Networks using Tensorflow and Caffe. Goal: classify and segment industrial mechanical parts and assemblies.
- Study on Adversarial Auto-Encoder and Generative Networks, and 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).

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

2017 Aviation Private Pilot in General Aviation2017 Data Venture Machine and Deep Learning Instructor

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 (4.7k ★)

COMPETENCES

PROGRAMMING

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

Familiar with:

• Diango • 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**
- LinkedIn: Jonathan DEKHTIAR
- Twitter: @Born2Data
- Technical Blog: born2data.com
- ResearchGate: Jonathan DEKHTIAR
- Google Scholar: Jonathan DEKHTIAR
- RSS Feed: feedcrunch.io/@dataradar
- Photography: ruskistudio.com