

Thomas Capelle

Creative Engineering

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Belgian-Chilean, 34



Professional Experience

- 2020-today **ML Engineer**, STEADYSUN, Le Bourget du Lac (France).
▪ State of the art forecasting using Deep Learning, model serving and production with torchserve.
▪ Piloting research colab with Nvidia in model serving and deployment.
▪ Semantic Segmentation and Optical Flow
▪ End2End Cloud Images to irradiance forecasting (ViT/Seq2Seq models)
- 2018-2020 **Research Engineer**, INES CEA, Grenoble (France).
▪ Development of algorithms for failure detection in Photovoltaic Systems
▪ Deep Learning model for parameter regression for IV- curve of photovoltaic modules
▪ Thermal Image segmentation and classification model
▪ Project engineer and coordination for Franco-Chilean partnership, international cooperation with multidisciplinary laboratories.
- 2017-2018 **Post-doc**, INSERM - INRIA, Grenoble (France).
▪ Integration of spatial models with air quality and forecast models.
- 2013-2016 **PhD**, *équipe STEEP*, INRIA, Grenoble (France).
▪ Development of mathematical frameworks for urban/transport model calibration
▪ Multidisciplinary team work (Engineers, Economists, Urbanists)
▪ Supervision of interns work
▪ International conferences and peer-reviewed publications
- 2011 **Master Internship**, CIRRELT, Polytech, Montréal (Canada).
Location and Routing modelling : Development of algorithms for logistics
- summer 2010 **Development Engineer**, LABTUS, Santiago (Chile).
Development of algorithms to estimate attractors for MUSSA models for Santiago
- 2010 **Assistant Profesor**, Universidad de los Andes, Santiago (Chile).
Analysis and Algebra for engineers

Education

- 2013-2016 **PhD Mathematics-Computer Science**, *Université de Grenoble-Alpes*, Grenoble.
2011-2012 **Master in Sciences, Transportation Economics**, *Universidad de Chile*, Santiago.
2004-2012 **Engineer in Applied Mathematics**, *Universidad de Chile*, Santiago.

Computer Skills

Coding Python (Pytorch ecosystem contributor, numpy, pandas, sklearn), CI/CD, Docker

Software Latex, word processing, Adobe suite, Linux, Mac and Windowz

———— Languages

Spanish: mothertongue, **Franch:** bilingual, **English:** bilingual.

———— Other Interests

- Experienced Sailor, sailed many classes and two world championships
- Guitar player (10 years) and blues lover
- Director and Producer of a DVD, for the Chilean musician Alejandro Silva
- Actor, Technical Director and Production in the chilean TV series EFECTO PICAFLOR (2002-2010)