

Thomas Lucas

24 rue Elisee Reclus – 38100 Grenoble

📞 06 64 18 09 38 • ✉ thomas.lucas@inria.fr
🌐 <https://thoth.inrialpes.fr/people/tlucas/> • 26 ans



Education

Phd student in Machine Learning and Computer Vision

Inria Grenoble, Team Thoth

Since 2016

Current research focused on unsupervised learning of deep generative models, with both adversarial and maximum-likelihood based approaches. Prior to that, I worked on improved attention mechanisms for image captioning. This work is done under the supervision of Jakob Verbeek in the Thoth team, and financed by a ministerial grant. It has resulted into publications at ICCV, ECML and ICML, which are detailed below.

Master of science in Industrial and Applied Mathematics, Grenoble

Ensimag & Université Joseph Fourier

2015–2016

Research master, focused on Machine learning, Data-Science, Statistics and Optimization, followed by a six month research internship.

Engineering Degree

Ensimag, applied mathematics department, Grenoble

2013–2016

Equivalent to a master of science in computer science. Courses chosen to focus on applied mathematics (statistics, optimisation) and algorithmic.

Classes préparatoires aux Grandes Écoles MP*

Lycee Victor Hugo, Besancon

2010–2013

Intensive training in Mathematics and Physics to prepare for competitive, national entrance exams for French leading schools.

Professional Experience

Peer reviewing

Conferences: NeurIPS (2018), ICLR (2018), ICCV (2019), Journal: IJCV (2019)

Research internship

Inria Grenoble, at team Lear (now team Thoth)

2016 February–July

My research internship centered on the exploration of deep neural architectures applied to image captioning tasks. It was the seed of the ICCV 2017 publication.

Summer Engineering Internship

Inovalée, Montbonnot

2015 June–August

Proof of concept for a start-up focused on applying machine-Learning to improve smartphone user experience, under the supervision of James Crowley.

Tutor

in Maths, English and Physics, with high-school students

2012–2016

Awards

Ministerial research grant

Competitive recrutement to obtain a ministerial grant financing my Ph.D.

2016

From the doctoral school of Université Grenoble-Alpes (UGA)

Publications

Adversarial training of partially invertible variational autoencoders

Thomas Lucas, Konstantin Schmelkov, Kartheek Alahari, Cordelia Schmid, Jakob Verbeek

<https://hal.archives-ouvertes.fr/hal-02007787/file/main.pdf>

Under review at ICML 2019

Mixed batches and symmetric discriminators for GAN training

Thomas Lucas, Corentin Tallec, Jakob Verbeek, Yann Ollivier

<https://arxiv.org/pdf/1806.07185.pdf>

ICML 2018 (long oral)

Auxiliary guided Autoregressive Variational Autoencoders

Thomas Lucas, Jakob Verbeek

<https://hal.inria.fr/hal-01652881/document>

ECML 2018 (oral)

Languages

French: Mother tongue

English: Fluent

I spent a year in South Africa in an English speaking school, and have family in the USA

German: Basics

Skills

Programming: Python, Tensorflow, Theano/Lasagne

Tools: Latex, Vim, Unix

Interests

Sports: Volleyball (competitive), Ski, Tennis

Others: Technology, video games