

Gabriele ABBATI

BIRTH: Italy | 10 February 1991
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EDUCATION

- PRESENT **D.Phil. (Ph.D.) in Machine Learning**, UNIVERSITY OF OXFORD, Oxford (UK)
Supervisor: M. A Osborne, **Machine Learning** Research Group
Funded by **Oxford - Google DeepMind** Graduate Scholarship
- 2016 **M.Sc. in Computational Science and Engineering**, ETH ZÜRICH, Zürich (CH)
Major: Computational Physics, *GPA:* 5.6/6
Master Thesis: "Feature Selection in Medical IT: Surgery Prediction for Spinal Stenosis"
Supervisors: Prof. J. Buhmann (Information Science and Engineering, ETH Zürich),
Prof. J. Steurer (Horten Center, UZH)
- 2013 **B.Eng. in Mathematical Engineering**, POLITECNICO DI MILANO, Milano (IT)
Final Grade: 110/110

WORK EXPERIENCE

- 2015 **Computational Science Intern**, SWISS NATIONAL SUPERCOMPUTING CENTER (CSCS),
Lugano (CH) (3 months). *Supervisor:* C. Gheller (CSCS).
- 2014 **Teaching Assistant (Stochastics)**, ETH ZÜRICH, Zürich (CH)

PUBLICATIONS

- 2017 Abbati, G., Bauer, S., Winklhofer, S., Schüffler, P., Held, U., Burgstaller, J., Steurer, J. & Buhmann, J., MRI-based Surgical Planning for Lumbar Spinal Stenosis. (Under Review)
- 2016 Verma, S., Abbati, G., Novati, G., & Koumoutsakos, P. "Computing the force distribution on the surface of complex, deforming geometries using vortex methods and Brinkman penalization". *ArXiv Preprint, arXiv:1610.04398* (<https://arxiv.org/abs/1610.04398v1>).

COMPUTER SKILLS

- Fluent with **C/C++**, **Fortran** with parallel computing APIs such as **OpenMP**, **POSIX** threads, **MPI**, **CUDA**, **AVX/SSE** and **OpenACC**
- Object-oriented programming
- **TeX** document editing
- Fluent with **Python** and **machine learning** packages (*scikit-learn*, *TensorFlow*)
- **Bash** scripting
- Able to use **Linux**, **Mac OS X** and **Windows** operating systems

LANGUAGES

Italian: Mother Tongue **English:** Fluent **French:** Limited Working Proficiency

LIFE SKILLS & HOBBIES

- Sports:** played tennis and golf for several years, grew recent interest in snowboarding and rock climbing
- Societies:** OUABC (Oxford University Amateur Boxing Club), Full Blue
OUMC (Oxford University Mountaineering Club)
The Oxford Union
- Hobbies:** played modern and classical guitar since I was young, passionate about several forms of art (literature, modern painting)