

# Gabriele ABBATI

BIRTH: Italy | 10 February 1991  
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## EDUCATION

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- 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, *Final GPA:* 5.6/6
- 2013 **B.Eng. in Mathematical Engineering**, POLITECNICO DI MILANO, Milano (IT)  
*Final Grade:* 110/110

## WORK EXPERIENCE

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- 2017 **Machine Learning Research Intern**, MIND FOUNDRY, Oxford (UK)
- 2015 **Computational Science Intern**, SWISS NATIONAL SUPERCOMPUTING CENTER (CSCS), Lugano (CH) (3 months).
- 2014 **Teaching Assistant (Stochastics)**, ETH ZÜRICH, Zürich (CH)

## PUBLICATIONS

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- 2017 Abbati, G., Bauer, S., Winklhofer, S., Schöffler, P., Held, U., Burgstaller, J., Steurer, J. & Buhmann, J., MRI-based Surgical Planning for Lumbar Spinal Stenosis. (under review)
- 2017 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". In *Int. J. Numer. Meth. Fluids* (to appear)

## COMPUTER SKILLS

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- 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

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**Italian:** Mother Tongue

**English:** Fluent

**French:** Limited Working Proficiency

## LIFE SKILLS & HOBBIES

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**Sports:** played tennis and golf for several years, grew recent interest in snowboarding and rock climbing

**Societies:**

- Oxford University Amateur Boxing Club (OUABC):
  - 2016-2017: Full Blue Athlete
  - 2017-2018: President

- Oxford University Mountaineering Club (OUMC)

- The Oxford Union (Debating Society)

**Hobbies:** played modern and classical guitar since I was young, passionate about several forms of art (literature, modern painting)