Gabriele ABBATI

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EDUCATION

PRESENT **D.Phil. (Ph.D.)** in **Engineering Science**, UNIVERSITY OF OXFORD, Oxford (UK)
Supervisor: Prof. M. A Osborne, **Machine Learning Research Group**
Funded by **Oxford - Google DeepMind**

2018 **Visiting Ph.D.** Student, MAX-PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS, Tübingen (DE)
Supervisor: Prof. Bernhard Schölkopf

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

2017 **Machine Learning Research Intern**, MIND FOUNDRY, Oxford (UK) (2 months)

2015 **Computational Science Intern**, SWISS NATIONAL SUPERCOMPUTING CENTER (CSCS), Lugano (CH) (3 months)

2014 **Teaching Assistant (Stochastics)**, ETH ZÜRICH, Zürich (CH)

PUBLICATIONS

2018 **Abbati, G.**, Tosi, A., Osborne, M.A. & Flaxman, S., "AdaGeo: Adaptive Geometric Learning for Optimization and Sampling". In *Proceedings of the 21st International Conference on Artificial Intelligence and Statistics (AISTATS), to appear.*

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". In *Medical Image Computing and Computer-Assisted Intervention (MICCAI) 2017: 20th International Conference, Proceedings, Part III* (pp. 116–124).

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 *International Journal for Numerical Methods in Fluids* .

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
- LaTeX document editing
- Software **versioning** (*git, subversion*)

- Fluent with **Python** and **machine learning** packages (*scikit-learn, TensorFlow, Keras,* etc.)
- **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:
- Oxford University Amateur Boxing Club (OUABC):
  - 2016/2017 and 2017/2018: 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)