

Raffaello Camoriano, Ph. D.

Address *Via Amendola 5/9A, 16035, Rapallo, Italy*

E-mail raffaello.camoriano@gmail.com

Mobile +393332131715

Web <https://it.linkedin.com/in/raffaellocamoriano>

Machine Learning and Robotics Postdoctoral Researcher with a strong computer science and engineering background, focusing on large-scale and incremental learning algorithms, kernel methods, reinforcement learning, and applications in robotics, visual recognition, dynamics learning and control.

EXPERIENCE

- Dates (from – to) February 2017 (current)
 - Position Postdoctoral Researcher
 - Organization Laboratory for Computational and Statistical Learning, **Istituto Italiano di Tecnologia (IIT) – Massachusetts Institute of Technology (MIT)**
- Dates (from – to) January 2014 – December 2016
 - Position Fellow Ph. D. Student (collaborator)
 - Organization iCub Facility & Laboratory for Computational and Statistical Learning, **IIT-MIT**

PUBLICATIONS

- Name **Dirichlet-based Gaussian Processes for Large-scale Calibrated Classification**
- Proceedings Advances in Neural Information Processing Systems - **NIPS 2018**
- Authors Milius D., C. R., Michiardi P., Rosasco L., Filippone M.
- Name **Constrained DMPs for Feasible Skill Learning on Humanoid Robots**
- Proceedings IEEE International Conference on Humanoid Robots - **Humanoids 2018**
- Authors Duan A., C. R., Ferigo D., Calandriello D., Rosasco L., Pucci D.
- Name **Incremental Robot Learning of New Objects with Fixed Update Time**
- Proceedings IEEE International Conference on Robotics and Automation - **ICRA 2017**
- Authors C. R.*, Pasquale G.*, Ciliberto C., Natale L., Rosasco L., Metta G.
- Name **Generalization Properties of Learning with Random Features**
- Proceedings **NIPS** Workshop on Adaptive and Scalable Nonparametric Methods in ML (**oral**) **2016**
- Authors Rudi A., C. R., Rosasco L.
- Name **Online semi-parametric learning for inverse dynamics modeling**
- Proceedings IEEE Conference on Decision and Control - **CDC 2016**
- Authors Romeres D., Zorzi M., C. R., Chiuso A.
- Name **Generalization Properties and Implicit Regularization for Multiple Passes SGM**
- Proceedings International Conference on Machine Learning - **ICML 2016**
- Authors Lin, J., C. R., Rosasco L.
- Name **Incremental Semiparametric Inverse Dynamics Learning**
- Proceedings IEEE International Conference on Robotics and Automation - **ICRA 2016**
- Authors C. R., Traversaro S., Rosasco L., Metta G., Nori F.
- Name **NYTRO: When Subsampling Meets Early Stopping**
- Proceedings International Conference on Artificial Intelligence and Statistics - **AISTATS 2016**
- Authors Angles T.*, C. R.*, Rudi A., Rosasco L.
- Name **Less is More: Nyström Computational Regularization**
- Proceedings Advances in Neural Information Processing Systems - **NIPS 2015 (oral)**
- Authors Rudi A., C. R., Rosasco L.

- Name **Development and Analysis of a New Specialized Gripper Mechanism for Garment Handling**
- Proceedings **ASME IDETC/CIE 2013**
- Authors Le L., Zoppi M., Jilich M., C. R., Zlatanov D., Molfino R.

EDUCATION AND TRAINING

- Dates (from – to) January 2014 – April 2017
- Title of qualification awarded **Doctoral Degree** in Bioengineering and Robotics. Curriculum in **Humanoid Robotics** iCub Facility, **Istituto Italiano di Tecnologia (IIT)**; DIBRIS, **University of Genoa**, Italy; Laboratory for Computational and Statistical Learning (LCSL), **IIT-MIT**
- Organizations **Large-scale Kernel Methods and Applications to Lifelong Robot Learning**
- Thesis Giorgio Metta, IIT; Lorenzo Rosasco, IIT-MIT-UNIGE
- Supervisors **- Best 2017 Ph. D. Thesis prize – IEEE Computational Intelligence Society Italy**
- Awards **- 1st place, Microsoft Big Data Hackathon, EXPO 2015, Milan, Italy**
- Google Travel Award @ NIPS 2015
- Distinguished Student Prize 2014, Government of Liguria, Italy
- Dates (from – to) July 2014
- Title of qualification awarded The iCub Summer School 2014 – Attendance Certificate
- Organisation Istituto Italiano di Tecnologia, Genoa, Italy
- Main subjects Humanoid Robotics, Computer Vision, Machine Learning, HMI
- Dates (from – to) May 2014
- Title of qualification awarded **Brains, Minds and Machines Summer School 2014** – Attendance Certificate
- Organisation **CBMM – Center for Brains, Minds and Machines, MIT & Harvard**, Boston, USA
- Main subjects Deep Learning, Neuroscience, Machine Learning, Computer Vision, Cognitive Science
- Organizers Tomaso Poggio (MIT) and L. Mahadevan (Harvard)
- Dates (from – to) September 2011 – October 2013
- Title of qualification awarded **Master's Degree in Robotics Engineering**
- Organisation School of Engineering, University of Genoa, Italy.
- Main subjects Robotics, AI, Machine Learning, Computer Vision, Computer Science, Control Systems
- Details Final grade: 110/110; GPA: 4.0/4.0; research-oriented course with internships in 3 labs
- Thesis **Modeling and Control of a Compliant Hand for Garment Manipulation**, CloPeMa European FP7 Project.
- Dates (from – to) September 2008 – October 2013
- Title of qualification awarded **ISICT-ISSUGE Bachelor's and Master's Diplomas**
- Organisations Inst. of Advanced Studies in ICT & Upper Inst. of Studies of the University of Genoa
- Main subjects Economics, PM, Law, Entrepreneurship, Bioinformatics, Quantum Computation, Business Intelligence, Data Mining, Neuroscience, Game Theory, Nanotechnologies
- Details **5-years studentship** awarded. Excellence course of study for BSc & MSc (1250 hours of extra courses, companies and research institutions visits and lectures, extra projects)
- Dates (from – to) September 2012
- Title of qualification awarded Screw-Theory Based Methods in Robotics Summer School – Attendance Certificate
- Organisation Department of Mechanics and Machinery Construction, University of Genoa, Italy
- Main subjects Kinematics, Flexibility Modeling, Statics, Dynamics, Mechanical Design
- Dates (from – to) August 2012
- Title of qualification awarded **14th Silicon Valley Study Tour Scholarship**
- Organisations SVIEC, NIAF, Italian Ministry of Foreign Affairs, La Storia Nel Futuro®, Aizoon®
- Details Visits to major companies, universities and start-ups in the Bay Area
- Main subjects Research, Innovation, Technology Transfer, Management, Entrepreneurship
- Dates (from – to) September 2008 – September 2011
- Title of qualification awarded **Bachelor's Degree in Computer Engineering**
- Organisation DIST, School of Engineering, University of Genoa, Italy
- Main subjects Computer Science, Control Systems, Signal Processing, Math, Physics, Databases
- Details Final grade: 110/110 cum Laude; GPA: 3.8/4.0.
- Thesis **Design and Development of a Modular CMS for a Student Club**

TEACHING

- Course **VVV17 - International Winter School on Humanoid Robot Programming 2017**
- Organization Italian Institute of Technology, Italy
- Role Teaching Assistant

- Course **Machine Learning 2016/2017**
- Organization DIBRIS, University of Genoa, Italy
- Role Teaching Assistant

- Course **Intelligent Systems and Machine Learning 2016**
- Organization DIBRIS, University of Genoa, Italy
- Role Teaching Assistant

- Course **Regularization Methods for Machine Learning 2016**
- Organization Italian Institute of Technology and University of Genoa, Italy
- Role Organizer and Teaching Assistant

- Course **Brains, Minds and Machines Summer School 2015**
- Organization **CBMM – Center for Brains, Minds and Machines**, McGovern Institute for Brain Research, **MIT and Harvard**, Boston, USA
- Role Teaching Assistant

- Course **Machine Learning Crash Course 2015 & 2017**
- Organization Italian Institute of Technology and DIBRIS, University of Genoa, Italy
- Role Organizer and Teaching Assistant

- Course **Intelligent Systems and Machine Learning 2015**
- Organization DIBRIS, University of Genoa, Italy
- Role Teaching Assistant

LANGUAGE SKILLS

- Mother tongue
- Other languages

ITALIAN

	LISTENING	READING	SPEAKING	WRITING
ENGLISH	PROFICIENT	PROFICIENT	PROFICIENT	PROFICIENT
FRENCH	BASIC	INDEPENDENT	BASIC	BASIC
SPANISH	BASIC	BASIC	N/D	N/D

University of Cambridge: Certificate of Proficiency in English (CPE) - 2011

University of Cambridge: Certificate in Advanced English (CAE) - 2007

University of Cambridge: First Certificate in English (FCE) - 2006

TECHNICAL SKILLS AND COMPETENCES

PROGRAMMING AND MARKUP LANGUAGES:

EXCELLENT	MATLAB, C++, C, HTML/CSS, L ^A T _E X
GOOD	Python, PHP, Assembly, UML, JavaScript+DOM, MySQL
BASIC	R, MPI, Cuda, Maple, PDDL

SOFTWARE TOOLS:

EXCELLENT	KDevelop, GIT, ROS, YARP, SVN, MPLAB, Office Tools
GOOD	Simulink, Eclipse, Microsoft Visual Studio, Pro/Engineer, JQuery

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Latest update: 2018/11/09