PERSONAL INFORMATION

Laura Margheri

via Cecconi, 35 – 57126 Livorno (Italy)

+39 347 1329605

laura.margheri@sssup.it, margherilaura@gmail.com

http://sssa.bioroboticsinstitute.it/user/91
http://sssa.marinerobotics.it/people/l.margheri.php

Sex F | Date of birth 05/03/1982 | City of birth Bagno a Ripoli (Firenze) | Nationality Italian

POSITIONS AND PROFESSIONAL SKILLS

- **Project management**: 7 years' experience with the management of international projects in the field of robotics (bio-robotics, soft robotics) including technical and administrative management of R&D activities, monitoring and integration of the workflow, coordination of multi-disciplinary teams and international partnership, management and editing of reports, risk analysis and management of corrective actions, organization and management of scientific initiatives for researchers and students, organization and management of initiatives for facilitating the technology transfer and for academia/industry meeting, management of the scientific dissemination and exploitation of the results.
- **Promotion, support and financial management of research and innovation**: deep knowledge of the regional, national and European funding programmes, experience in writing project proposals, negotiation with funding agencies and companies, international cooperation and partnership building, participation in consultations and in writing of text call for research and innovation projects in the area of ICT and Robotics (in Horizon2020, euRobotics aisbl/SPARC, World Economic Forum Global Agenda Council on Artificial Intelligence & Robotics), in the management of collaborations and joint initiatives between research institutions and industries worldwide, with European Commission Officers and with regional representatives, as registered independent expert for H2020, and in the evaluation of new technologies and definition of business plan for technology transfer.
- **Biomedical and BioRobotics Engineer**: BSc and MSc (Hons) in BioMedical Engineering and PhD in BioRobotics (Hons), R&D activities in the framework of national and international research projects in biomedical engineering, biorobotics and soft robotics, with additional insights and experience in the fields of biology and neuroscience.
- **Additional activities:** representative of the Women In Engineering in the IEEE Robotics and Automation Society and science writer.

WORK EXPERIENCE

February 2009 – to present

Project Manager, BioRobotics Engineer

The BioRobotics Institute – Scuola Superiore Sant'Anna (http://sssa.bioroboticsinstitute.it/)
Research Centre on Sea Technologies and Marine Robotics (http://sssa.marinerobotics.it/)

October 2013 – to present

- **Project manager of "RoboSoft - A Coordination Action for Soft Robotics"**
  (FP7-ICT-2013-C FET Open, Challenge Current Thinking, contract #619319, 2013-2016, total EU contribution: 952 960 €, http://www.robosoftca.eu/; Project Coordinator: Scuola Superiore Sant'Anna, The BioRobotics Institute).
  Roles:
  - Project creator and author: definition of scientific contents, networking activities, administrative aspects, and coordination and integration of the partnership contributions (total mark: 4.8/5)
  - Organization, planning and control of the scientific, networking and administrative activities during the project
  - Monitoring of the work-plan, editing of periodic reports (scientific and financial) and management of amendments
  - Coordination of the partnership and workflow integration and monitoring
  - Scientific dissemination, website design and management

- Engagement and coordination of scientific community members and industrial stakeholders, with periodic searching for new research groups and new companies
- Organization and management of activities and events for scientific networking, promotion of technologies and students' training
- Organization of specific events for academia and industry meeting for promoting technology transfer, new projects and new collaborations
- Founder and organizer of the "Soft Robotics Week"

November 2013 – to present

- **Scientific dissemination in the SMART-E Marie-Curie Initial Training Network on "Sustainable Manufacturing through Advanced Robotics Training in Europe"**
  (FP7-PEOPLE-2013-ITN, Marie Curie Initial Training Network, contract # 608022, 2013-2017, total EU contribution 3,9 M€, http://smart-e-mariecurie.eu/; Project Coordinator: University of Salford).
  Roles:
  - Contribution to the dissemination of the project activities
  - Organization of training events (with specific focus on entrepreneurship)
  - Contribution to the periodic reporting of the project results

February 2009 – September 2013

- **R&D activities and project management in the OCTOPUS Integrating Project**
  (FP7 ICT-2007.8.5 FET Proactive, Embodied Intelligence, contract #231608, 2009-2013, total EU contribution: 7,6 M€, http://www.octopus-project.eu/; Project Coordinator: Scuola Superiore Sant'Anna, The BioRobotics Institute).
  Roles:
  - Characterization and modelling of the *Octopus vulgaris* for the design of innovative soft robotics technologies
  - Study and evaluation of marine robots inspired by the octopus in real world test bed
  - Management, organization, planning and control of R&D activities and administrative aspects
  - Editing of the periodic scientific and financial reports, management of amendments
  - Support in the coordination of the partnership, and in particular with the group of neuroscientists and biologists
  - Scientific dissemination, website design and management
  - Organization and management of activities and events for scientific networking, promotion of technologies and students' training

February 2009 – to present

- **Scientific dissemination, training events management and public relations for the Research Centre on Sea Technologies and Marine Robotics R&D activities**:
  - Contacts with general press, international and national journals and management of interviews
  - Contacts and relationships with local authorities and institutions
  - Organization of joint activities with the Aquarium of Livorno for scientific dissemination
  - Contacts with schools and management of visiting students and of the education programmes

January 2015 – to present

Project Manager

TechnoDeal s.r.l.

- Project management
- Technology transfer management, business analysis and exploitation plan

April 2012 – January 2015

Executive Manager – Scientific Secretariat

The BioRobotics Institute – Scuola Superiore Sant'Anna (http://sssa.bioroboticsinstitute.it/)

- **Executive Manager and Scientific Secretariat of the activities coordinated by Professor Paolo Dario, Director of the BioRobotics Institute, for the promotion, support and financial management of research and innovation:**
  - Organization, planning and control of the activities and collaborative initiatives with research institutions and industries
  - Participation in consultation and writing of text call for research and innovation projects in the area of ICT and Robotics and Future and Emerging Technologies (FET) in H2020 and with the euRobotics aisbl/SPARC
  - Organization and management of the activities for the creation of an international network of European Regions for supporting robotics
  - Contact and consultation with European Commission Officers and regional representatives

- Management of activities and contribution to consultations within euRobotics aisbl (http://www.eu-robotics.net/)
- Contribution in the activities in international boards: World Economic Forum Global Agenda Council on Robotics & Smart Devices (http://www.weforum.org/content/global-agenda-council-robotics-smart-devices-2012-2014#IssueOverview); IEEE Engineering in Medicine and Biology Society (EMBS) BioRobotics Technical Committee (TC) in BioRobotics
- Management of the activities within the FLAG-ERA project for the CA-RoboCom pilot (http://www.flagera.eu/)
- Management of activities for the design and development of robotics infrastructures for testing and validating robots for the market and their social impact
- Contribution to the writing of the CA-RoboCom final report
- Contribution to the writing, partnership management, stakeholders engagement, integration of contribution and administrative aspects for the FET-Flagship project proposal "RoboCom"
- Contribution to the writing of the RoboCom++ for the FLAG-ERA Joint Transnational Call 2016 for Flagship-Proof-of-Concept Projects on Cooperative Robots
- Writing of scientific and administrative contents, partnership management, and integration of contributions for "The European Robotics Research Infrastructures Network – TERRINet" project proposal for the Research Infrastructures Call INFRAIA-02-2017: Integrating Activities for Starting Communities
- Organization of scientific international events, dissemination and exploitation of R&D activities at international events, for specialized audience or to general public and students for different research areas of the BioRobotics Institute

EDUCATION AND TRAINING

November 2008 – April 2012

PhD in BioRobotics

100/100 + Honours

Innovative Technologies of Information & Communication Engineering and Robotics

The BioRobotics Institute, Scuola Superiore Sant'Anna, Pisa, Italy

Title of the thesis: "Characterization and modelling of the *Octopus vulgaris* for the design of innovative soft robotics technologies"

Tutor: Cecilia Laschi (The BioRobotics Institute, Scuola Superiore Sant'Anna)
Supervisors: Barbara Mazzolai (Center for Micro-BioRobotics IIT@SSSA); Paolo Dario (The BioRobotics Institute, Scuola Superiore Sant'Anna)
External supervisors: Tamar Flash (Weizmann Institute of Science); Graziano Fiorito (Stazione Zoologica Anton Dohrn)

R&D areas: ICT, Robotics and BioRobotics, Biomimetics, Biology

The work aimed at the study, measurement, and modelling of the octopus body and arms' structural and mechanical characteristics to extract specifications for the design of innovative technological solutions which can be used for the development of a new generation of high-dexterous soft-bodied robots. With this purpose, tools and methods have been designed for in vivo, non-invasive analysis of the anatomical features of the octopus arm, and to measure the arm's mechanical properties. The resulting data have been used to model the octopus arm behaviour and to extract further information on the internal mechanical characteristics. The key features "extracted" from the octopus arm have been "translated" into engineering specifications, and the identified requirements have been used to design components for soft robotics systems, such as soft materials, mechanisms, and actuators.
Instruments and in vivo analysis have been also used to quantitatively study and measure octopuses behaviours and differences between subjects.

December 2011 – January 2012:

Visiting Ph.D. student at the Weizmann Institute of Science and the Hebrew University of Jerusalem

Research activities: 3D analysis and reconstruction of movement, biomechanical modelling of muscular hydrostat, study of animal behavior

June – July 2009:

Visiting Ph.D. student at the Stazione Zoologica Anton Dohrn, Napoli (Italy)

Research activities: study of octopus biomechanics and behavior, ultrasound imaging analysis, histology of soft tissues

February 2009

Professional habilitation (Industrial Engineering)

Università di Pisa, Italy

Industrial Engineering

2005/06 - 2007/08

M. Sc. Biomedical Engineering

110/110 + Honours

Università di Pisa, Italy

Training and thesis at the ARTS Lab of the Scuola Superiore Sant'Anna, Pisa, Italy

Title of the thesis: "Studio in vivo e modellizzazione della biomeccanica di un esemplare di *Octopus vulgaris*" ("In vivo study and biomechanical modelling of an *Octopus vulgaris*")

Supervisors: Cecilia Laschi, Barbara Mazzolai, Paolo Dario

Major topics: design and development of bioengineering instruments for the characterization and modelling of the arm of the *Octopus vulgaris*; 3D analysis and reconstruction of movement and swimming of the octopus

2001/02 - 2004/05

B. Sc. Biomedical Engineering

107/110

Università di Pisa, Italy

Title of the thesis: "Biomeccanica della correzione della sindrome della gamba apparentemente più corta con il Metodo di Autoterapia Zilgrei" ("Biomechanics of the therapy of the lower limb imbalance with the Zilgrei method")

Tutor: Francesca Di Puccio (Università di Pisa)

Major topics: biomechanics of lower limbs and analysis of movement

1996/97 - 2000/01

Diploma Scientifico

100/100

Liceo Scientifico Statale Piero Gobetti, Bagno a Ripoli (FI)

Maturità scientifica

INTERNATIONAL RESPONSIBILITIES and REPRESENTATIVE ROLES

January 2014 – to present

Chair of the IEEE Robotics and Automation Society (RAS) Women In Engineering (WIE) Committee

Major roles:
- coordination of the activities of WIE in RAS
- organization of events and activities for promoting RAS-WIE and for inspiring girls around the world to get involved in engineering
- writing periodic articles for the Robotics and Automation Magazine (interviews and reports on WIE)
- participation to the IEEE WIE Committee in person meeting, with the representatives of IEEE Societies and Regions
- management of joint activities for multi-society and international collaborations

Additional roles:
- Member of the IEEE RAS Members Activities Board (MAB)
- Member of the IEEE RAS Conference Activities Board (CAB)
- Member of the IEEE RAS Long Range Planning Committee (LRPC)
- Member of the IEEE WIE Magazine Sub-Committee
- Member of the Editorial Board of the IEEE RAS Technical Committee on Soft Robotics Newsletter

December 2012 - January 2014

Chair of the IEEE RAS Student Activities Committee and Student AdCom (Administrative Committee) Member

Major roles:
- coordination of the activities of students in RAS
- organization of events and activities for promoting RAS
- writing periodic articles for the Robotics and Automation Magazine

Additional roles:
- Member of the IEEE RAS Administrative Committee (AdCom)
- Member of the IEEE RAS Long Range Planning Committee (LRPC)
- Member of the IEEE RAS Electronic Products and Services Board (EPSB)
- Member of the IEEE RAS Members Activities Board
- Region 8 Liaison for IEEE RAS 2013

2010

Representative of PhD students in Engineering, Scuola Superiore Sant'Anna

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	INDEPENDENT USER	INDEPENDENT USER	INDEPENDENT USER	INDEPENDENT USER	INDEPENDENT USER

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

Good communication skills (oral and written) gained through:

- the 7 years' of work experience in an international and multi-disciplinary community of researchers, students, industrial stakeholders, EU officers and national and regional representatives
- several talks and networking activities at international events and meetings
- the activities as representative within the IEEE Robotics and Automation Society (RAS)
- the activities as Executive Manager and Scientific Secretariat of the Director of the BioRobotics Institute
- the activities as science writer and the dissemination activities for general public, press, science journalists, authors of books, etc.

Organisational / managerial skills

- Management, o
- rganization, planning and control of the coordination action activities and of the community, dissemination and exploitation, website, reporting of the project activities in the RoboSoft - A Coordination Action for Soft Robotics (FP7-ICT-2013-C FET Open, Challenge Current Thinking, contract #619319, 2013-2016, total EU contribution: 952 960 €, http://www.robosoftca.eu/).
- Management, organization, planning and control of R&D activities, of education and of the community, dissemination and exploitation, website, reporting of the project activities in the OCTOPUS Integrating Project (FP7 ICT-2007.8.5 FET Proactive, Embodied Intellligence, contract #231608, 2009-2013, total EU contribution: 7,6 M€, http://www.octopus-project.eu/).
- Management of project proposals writing thanks to the direct experience and to the specific courses attended, from the identification of the call(s) to the coordination of partnership and integration of contributions, from the organization of the scientific and networking contents to the management of administrative and financial aspects.
- Coordination of international and multi-disciplinary collaborations (at academia and industry level, and with politicians) thanks to the vast network of partners and contacts and the experience gained during the managed projects, the involvement in RAS, the activity as executive manager and scientific secretariat and the scientific dissemination.

- Direct organization of scientific international events (project meetings, workshops and special sessions at international conference, exhibitions, Summer Schools), including the definition of scientific contents, speakers, target audience, dissemination material design and preparation, promotion of the event using websites, mailing lists and socials, report of the outcomes and publications in general press and/or scientific journals.
  List of the main public events (workshop, special sessions, exhibitions, and other initiatives) organized:
  - Soft Robotics Week 2016, April 25-30, 2016, Livorno, Italy – including the RoboSoft Plenary Meeting, RoboSoft Summer School and the RoboSoft Grand Challenge (http://www.robosoftca.eu/information/events/soft-robotics-week-2016)
  - Soft Machines – The Next Technological Revolution! – Networking Session at the ICT2015 Innovate, Connect, Transform Conference, October 22, 2015, Lisbon, Portugal (https://ec.europa.eu/digital-agenda/events/cf/ict2015/item-display.cfm?id=15841)
  - Industrial Networking and Engagement Day on Soft Technologies, October 8, 2015, Bristol, UK (http://www.robosoftca.eu/events/industry-event)
  - IROS 2015 Workshop - New Frontiers and Applications for Soft Robotics, October 2, 2015, Hamburg, Germany (http://www.robosoftca.eu/information/events/iros-2015-workshop)
  - SMART-E Summer School on Advanced Robotics for Sustainable Manufacturing, July 6-10, 2015, Livorno, Italy
  - International Conference on Robotics and Automation, ICRA 2015, May 26-30, 2015, Seattle, Washington, USA (http://icra2015.org/) - Organizing Committee: WIE RAS Representative
  - ICRA 2015 Workshop Soft Robotics: Actuation, Integration, and Applications. Blending research perspectives. May 30, 2015, Seattle, Washington, USA (http://robotics.oregonstate.edu/icra2015softrobotics)
  - Roundtable on "Innovations in Robotics" at the 2015 IEEE Women In Engineering International Leadership Conference (WIE ILC 2015), April 25, 2015, San Jose, CA (http://ieee-wie-ilc.org/) – organizer and moderator
  - Soft Robotics Week, April 13-17, 2015, Livorno, Italy (http://www.robosoftca.eu/information/events/soft-robotics-week)
  - EU Robotics Regions Workshop at the European Robotics Forum 2015 (http://sssa.bioroboticsinstitute.it/specials/workshopEuRobotics_vienna)
  - Workshop on Advances on Soft Robotics, Robotics Science and Systems Conference, RSS2014, July 13, 2014, Berkeley, CA (http://www.robosoftca.eu/events/rss2014-workshop)

- First RoboSoft Plenary Meeting, March 31-April 1, 2014, Pisa, Italy (http://www.robosoftca.eu/information/events/first-plenary-meeting)
- 4 Special Sessions at the European Robotics Forum 2014: 1) Robotics In Italy; 2) EU Regions and Robotics Infrastructures; 3) Robot Companions for Assisted Living Topic Group; 4) Young Roboticists toward H2020.
- First workshop on " The Role of the EU Regions in Supporting Robotics" (Bruxelles, October 30, 2013)
- Third EMBODIED INTELLIGENCE Summer School, June 25th - June 29th, 2012, Rome, Italy
- Special session on: 'Embodied Intelligence: Octopus-inspired Robotics' at ICRA2012
- Second EMBODIED INTELLIGENCE Summer School, June 27th - July 1st, Zurich, Switzerland
- 1- Full-Day Scientific Workshop at ICAR 2011 "Soft Robotics", June, 20 2011, Tallinn, Estonia
- 1- Full-Day Scientific Workshop at ICRA 2011 "Scientific collaboration in Embodied Intelligence in Europe: the FET EMBODYi programme of the European Commission and the new actions for 2011-2012 (Flagships and FP8)", May, 13 in Shanghai, China
- OCTOPUS Exhibition at FET 2011-The European Future Technologies Conference and Exhibition, 4-6 May 2011, Budapest, Hungary
- First EMBODIED INTELLIGENCE Summer School, September, 20-24, 2010, Livorno, Italy
- OCTOPUS Exhibition at ICT 2010- Brussels Expo, 27-29 September 2010, Brussels, Belgium
- 1- Full-Day Scientific Workshop "EMBODYi", involving FET-Proactive EMBODYi Projects representatives, March, 17 2010, Livorno, Italy

Job-related skills

- Research and technology innovation management, support and promotion
- Knowledge on the strategies for fund raising and internationalization of start-ups
- Business analysis, marketing and technology transfer
- Deep knowledge of the European, national and regional funding programmes
- Management of research and innovation projects: from the writing of proposals to the daily management of the projects, including scientific/technical and administrative aspects
- Coordination of international networks and ability to work with and to integrate people with different technical background, role, country
- Organization and management of activities and events for scientific dissemination, training of students and for stakeholders' engagement
- Website management, communication skills, public & media relations
- Multi-disciplinary and international vision and vast network of contacts and partners
- Fast problem-solving and strategic (re)organization
- Creativity, fast learning ability and adaptability
- Ability to understand users' needs
- R&D activities in the framework of national and international research projects

Computer skills

- Office, Matlab, Mathcad, SPSS, Webdeveloper, Ultrasound imaging

Driving licence

- B

ADDITIONAL INFORMATION

Publications

- Margheri L (2016) Women in Engineering, Science, and Technology in the United Arab Emirates [Women in Engineering], Robotics & Automation Magazine, IEEE, in press for the June 2016 issue
- Margheri L (2016) Il nuovo petrolio è l'ingegneria vista al femminile. QN – Quotidiano Nazionale, Il piacere della lettura, Anno 1, numero 5, 22 maggio 2016
- Margheri L (2015) Innovations in Robotics Panel at the 2015 WIE International Leadership Conference [Society News], Robotics & Automation Magazine, IEEE 22 (3), 177-178
- Margheri L (2015) Funding Robotics Projects: An Interview with Cecile Huet, Deputy Head of the European Commission Robotics Unit [Women in Engineering], Robotics & Automation Magazine, IEEE 22 (3), 185-186
- Margheri L Laschi C (2015) The Soft Robotics Week: A New Yearly Event for the Community of Soft Robotics, Soft Robotics 2 (2), 88-90

- Margheri L (2015) Women in Automation: An Experience of Career Growth and Society Volunteering [Women in Engineering], Robotics & Automation Magazine, IEEE 22 (2), 112-114
- Cianchetti M, Calisti M, Margheri L, Kuba M, Laschi C (2015) Bioinspired locomotion and grasping in water: the soft eight-arm OCTOPUS robot, Bioinspiration & biomimetics 10 (3), 035003
- Margheri L (2015) Raise the Visibility of Women in Engineering [Women in Engineering], Robotics & Automation Magazine, IEEE 22 (1), 143-146
- Margheri L Trimmer B (2015) Soft Robotics Community Events: Meeting Different Backgrounds for Common Challenges, Soft Robotics 1 (4), 236-238
- Cianchetti M, Calisti M, Margheri L, Kuba M, Laschi C (2014) Bioinspired locomotion and grasping in water: the soft eight-arm OCTOPUS robot, Bioinspir. Biomim 10 035003
- Margheri L (2014) Lead Beyond: The WIE International Leadership Conference [Women in Engineering], Robotics & Automation Magazine, IEEE 21 (3), 160-161
- Margheri L (2014) Le “donne- ingegnere” e la leadership al femminile, Il Sole 24 Ore, Commenti & Inchieste, N.147, pag. 20, 31/05/2014
- Margheri L (2014) Exploring Soft Robots: “Tales from the RoboSoft Community”, IEEE International Conference on Robotics and Automation (ICRA 2014), p. XXXII
- Nurzaman SG, Iida F, Margheri L, Laschi C (2014) Soft Robotics on the Move: Scientific Networks, Activities, and Future Challenges, Soft Robotics 1 (2), 154-158
- Margheri L (2014) Dialogs on Robotics Horizons [Student's Corner], Robotics & Automation Magazine, IEEE 21 (1), 74-76
- Margheri L (2013) Farewell Thoughts [Student's Corner] Robotics & Automation Magazine, IEEE 20 (4), 160-165

- Margheri L (2013) Enjoying the Experience Within RAS Robotics & Automation Magazine, IEEE 20 (4), 160
- Mazzolai B., Margheri L., Dario P., Laschi C. (2013) Measurements of octopus arm elongation: Evidence of differences by body size and gender, Journal Of Experimental Marine Biology And Ecology, vol. 447, pp. 160–164
- Margheri L (2013) ICRA 2013-A Snapshot for the Students [Student's Corner], Robotics & Automation Magazine, IEEE 20 (3), 92-102
- Margheri L (2012) At the End of a Great Year: Listen to the Voice of Young Roboticists [Student's Corner], Robotics & Automation Magazine, IEEE 19 (4), 83-84
- Margheri L, Visser L (2012) Innovation for Tomorrow's Needs: Student Activities and Creativity at ICRA 2012 [Student's Corner], Robotics & Automation Magazine, IEEE 19 (3), 104-105
- Margheri L, Wensing P, Dresscher D (2012) Widening Horizons: The Present and Future of the RAS Student Activities Committee [Student's Corner], Robotics & Automation Magazine, IEEE 19 (2), 92-96
- Margheri, L., Laschi, C., Mazzolai, B. (2012) Soft robotic arm inspired by the octopus. I. From biological functions to artificial requirements. Bioinspir. Biomim. Jun;7(2):025004
- Mazzolai B., Margheri L., Cianchetti M., Dario P., Laschi C. (2012) Soft robotic arm inspired by the octopus. II. From artificial requirements to innovative technological solutions. Bioinspir. Biomim. Jun;7(2):025005
- Haidegger T, Margheri L (2012) New SAC Chair and Student Reviewer Program [Student's Corner], Robotics & Automation Magazine, IEEE 19 (1), 96-98
- Margheri L (2012) The RAS Student Reviewer Program—Updates, Robotics & Automation Magazine
- Margheri L, Follador M, Cianchetti M, Mazzolai B, Laschi C (2012) Bio-inspired Design of an Artificial Muscular-Hydrostat Unit for Soft Robotic Systems, Biomimetic and Biohybrid Systems, 375-376
- Laschi C, Cianchetti M, Mazzolai B, Margheri L., Follador M., Dario P (2012) A Soft Robot Arm Inspired by the Octopus. Adv. Robotics 26, 4
- Margheri L, Ponte G., Mazzolai B., Laschi C., Fiorito G. (2011) Non invasive study of the *Octopus vulgaris* arm morphology using ultrasound. J. Exp. Biol. 214, 3727-3731
- Margheri L, Mazzolai B., Dario P., Laschi C. (2011) A bioengineering approach for in vivo measurements of the octopus arms J Shellfish Res 30:1012
- Margheri L., Mazzolai B., Laschi C., Dario P. (2009) Methods and tools for experimental in-vivo measurement and characterization of the *Octopus vulgaris* arm mechanical properties J Mol Neurosci 39 (Suppl 1):S1–S132, S77
- Margheri L., Ponte G., Mazzolai B., Laschi C and Fiorito G (2009) In vivo investigation of the arm nerve cord morphology of the *Octopus vulgaris*, using ultrasound techniques J Mol Neurosci 39 (Suppl 1):S1–S132, S77-78
- Margheri L, Mazzolai B., Dario P., Laschi C (2011) A bioengineering approach for in vivo measurements of the octopus arms J Shellfish Res 30:1012
- Margheri L., Mazzolai B., Laschi C., Dario P.(2009) Methods and tools for experimental in-vivo

measurement and characterization of the *Octopus vulgaris* arm mechanical properties J Mol Neurosci 39 (Suppl 1):S1–S132, S77

- Margheri L., Ponte G., Mazzolai B., Laschi C. and Fiorito G. (2009) In vivo investigation of the arm nerve cord morphology of the *Octopus vulgaris*, using ultrasound techniques J Mol Neurosci 39 (Suppl 1):S1–S132, S77-78
- Mazzolai B. and Margheri L. Octopus-inspired Robotics. Special Session at the IEEE International Conference on Robotics and Automation (ICRA2012), St. Paul, Minnesota, USA, May 2012
- Margheri L. The octopus: biomechanical measurements of a biological model for novel soft-robotics design principles. The Science Café at the FET (Future and Emerging Technologies) Conference, Budapest, Hungary
- Margheri L, Mazzolai B., Dario P., Laschi C. A bioengineering approach for in vivo measurements of the octopus arms. Euroceph2011 Conference –7-10 April, Napoli, Italy
- Margheri L., Cianchetti M., Mazzolai B., Dario P., Laschi C. Novel Design Principles for a Biomimetic Soft-Robot based on the In Vivo Characterization of the Morphology and Mechanics of Octopus Arm. Bio-inspired Robots Workshop 2011 – Nantes, 6-8 April
- Margheri L, Mazzolai B., Dario P., Laschi C. A non-invasive anatomical study and biomechanical measurements of the *Octopus vulgaris* arms for biomimetic robotics design. 1st International Conference on Applied Bionics and Biomechanics (ICABB-2010), Venice, Italy
- Margheri L., Mazzolai B., Ponte G., Fiorito G., Dario P., Laschi C. Methods and tools for the anatomical study and experimental in vivo measurement of the Octopus vulgaris arm for biomimetic design. Third IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BioRob 2010), Tokyo, Japan

- Margheri L., Ponte G., Mazzolai B., Dario P., Laschi C., Fiorito G. Anatomical study and in vivo measurement of the elongation and strength capability of the octopus arm. Secondo Congresso Nazionale di Bioingegneria (Congresso GNB2010), Torino, Italy, 8-10 luglio 2010
- Margheri L., Mazzolai B., Cianchetti M., Dario P. and Laschi C. (2009) Tools and Methods for Experimental In-vivo Measurement and Biomechanical Characterization of an Octopus vulgaris Arm. Proceedings of the 31st IEEE EMBS Int. Conf. Minneapolis, Minnesota, USA

Given presentations at international conferences and seminars

- Industrial Networking and Engagement Day on Soft Technologies, October 8, 2015, Bristol, UK
- 2014 IEEE International Conference on Robotics and Automation (ICRA 2014). Pecha Kucha Finalist (plenary talk). “Exploring Soft Robots: Tales from the RoboSoft Community”. June 2, 2014 Honk Kong
- Women In Engineering Committee in person meeting, May 4-5, 2014, San Francisco
- Second Sperlonga Summer School on Mechanics and Engineering Sciences. Invited Lecture. “Characterization and modelling of the octopus as a biological model for the design of innovative soft robotics technologies” 24-28 September 2012, Sperlonga, Italy
- “Mathematics and Mechanics of Biological Assemblies and Soft Tissues” First National Meeting. Invited talk. “Characterization and modelling of the octopus arm for the design of a continuum soft structure”, February 21, 2012, Milano, Italy
- FET2011. “The octopus: biomechanical measurements of a biological model for novel soft-robotics design principles”, The Science Café at the FET (Future and Emerging Technologies) Conference, Budapest, Hungary
- EuroCeph2011. L. Margheri, B. Mazzolai, P. Dario, C. Laschi “A bioengineering approach for in vivo measurements of the octopus arms”. Awarded by Comitato Studi EuroCeph at EuroCeph2011 conference.
- ICABB2010. L. Margheri, B. Mazzolai, P. Dario, C. Laschi, “A non-invasive anatomical study and biomechanical measurements of the Octopus vulgaris arms for biomimetic robotics design”, 1st International Conference on Applied Bionics and Biomechanics (ICABB-2010), Venice, Italy.
- GNB 2010. L. Margheri, G. Ponte, B. Mazzolai, C. Laschi, P. Dario, G. Fiorito, “Anatomical study and in vivo measurement of the elongation and strength capability of the octopus arm”, Secondo Congresso Nazionale di Bioingegneria (Congresso GNB2010), Torino, Italy, 8-10 luglio 2010.
- ISFN2009. Margheri L., Mazzolai B., Laschi C. and Dario P. (2009) Methods and tools for experimental in-vivo measurement and characterization of the Octopus vulgaris arm mechanical properties J Mol Neurosci 39 (Suppl 1):S1–S132, S77, published on 6th November 2009
- ISFN2009. Margheri L., Ponte G., Mazzolai B., Laschi C. and Fiorito G. (2009) In vivo investigation of the arm nerve cord morphology of the Octopus vulgaris, using ultrasound techniques J Mol Neurosci 39 (Suppl 1):S1–S132, S77-78, published on 6th November 2009
- EMBC 2009. Margheri L., Mazzolai B., Cianchetti M., Dario P. and Laschi C. (2009) Tools and Methods for Experimental In-vivo Measurement and Biomechanical Characterization of an Octopus

vulgaris Arm Proceedings of the 31st IEEE EMBS Int. Conf. Minneapolis, Minnesota, USA
- BAW 2009. Brain Awareness Week La robotica e lo studio del cervello: robot umanoidi e biomimetici. March,19 2009, Napoli, Italy

International Conference and Special Courses attended

- Course "Fund raising and internationalization of start ups", organized by the Tuscan Start-up Academy, September 2015
- Course "Inside ICT & Robot", organized by the Tuscan Start-up Academy, May-July 2015
- 2015 IEEE International Conference on Robotics and Automation (ICRA 2015), Seattle
- 3rd European Robotics Forum (ERF 2015), March 11-13, 2015, Vienna, Austria
- IEEE Robotics and Automation Society (RAS) Long Range Planning Committee Meeting, 11 January 2015, San Francisco, CA
- 2014 IEEE International Conference on Robotics and Automation (ICRA 2014), Honk Kong
- Women In Engineering Committee in person meeting, May 4-5, 2014, San Francisco
- 1st IEEE Women in Engineering International Leadership Conference, May 1-3, 2014, San Francisco
- 1st RoboSoft Plenary Meeting, March 31-April 1, 2014, Pisa, Italy
- 2nd European Robotics Forum (ERF 2014), March 12-14, 2014, Rovereto, Italy
- FLAG-ERA Workshop (2nd meeting), February 17-19, 2014, Rome, Italy
- Horizon 2020: Info Day on Research Infrastructures, February 6, 2014, Pisa, Italy
- 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2013), 3-8 November 2013, Tokyo Big Sight, Japan
- ECHORD ++ meeting
- 2013 Cheltenham Science Festival (OCTOPUS exhibition) June 4-9, 2013, Cheltenham, UK
- Madrid
- 1st workshop on " The Role of the EU Regions in Supporting Robotics" October 30, 2013, Bruxelles
- 2013 IEEE International Conference on Robotics and Automation (ICRA 2013), 6-10 May 2013, Karlsruhe, Germany
- Creative Engineering Design, Course by Mark Cutckosky
- IEEE Robotics and Automation Society (RAS) Long Range Planning Committee Meeting, 25-26 January 2013, San Francisco, CA
- 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2012), 7-12 October 2012, Algarve, Portugal
- Second Sperlonga Summer School on Mechanics and Engineering Sciences, Sperlonga 24-28 September 2012
- 2012 IEEE RAS & EMBS International Conference on Biomedical Robotics and Biomechatronics (BioRob 2012), June 24-27, Rome, Italy
- Parigi
- 2012 IEEE International Conference on Robotics and Automation (ICRA 2012), 14-18 May 2012, Minneapolis, MN, USA
- 2011 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2011), September 25-30, San Francisco, CA, USA
- "Inspiring Excellence in Research", fondazione CRUI, 21 -23 February and June, 8th 2011, Roma, Italy
- FET2011, May 4-6 2011, Budapest, Hungary
- EuroCeph2011, April 7-10 2011, Naples, Italy
- 1st International Conference on Applied Bionics and Biomechanics (ICABB2010), October 14-16, 2010 Venice, Italy
- 1st Embodied Intelligence Summer School, Livorno, Italy, September, 20-24, 2010
- 2nd National Congress of Bioengineering (GNB2010), July 8-10, Turin, Italy
- 18th Israel Society for Neuroscience (ISFN) Annual Meeting, November 22-24, 2009 in Eilat, Israel
- WSK-TNg2009 Waseda-SSSA-Kist-Tsukuba-Nagoya Summer School in Autumn: "From Communication to Collaboration" Tokyo, Japan, November, 2-7 2009
- FET (Future and Emerging Technologies) Conference 2009, April 21-23, 2009, Prague, Czech Republic
- How the body shapes the way we think: implications of embodiment for a theory of intelligence, course by Prof. Rolf Pfeifer, March, 23 ÷ April, 28 2009, Pontedera (Pisa), Italy
- 31st IEEE EMBS Int. Conf. (EMBC2009), September 3-6 2009, Minneapolis, Minnesota, USA
- BAW 2009: Brain Awareness Week March,19 2009, Napoli, Italy
- Waseda-SSSA-Kist (WSK 2008) Summer School on "Fundamentals of Biorobotics" Volterra (PI), Italy, August, 31 ÷ September, 5 2008

- "Biological Approaches for Engineering" Conference (BAEC 2008), 17-19 March 2008, Southampton, UK
- 25th Summer School of Bioengineering: "Neuro-robotics: neuroscience and robotics for the development of intelligent devices", 25-28 September 2006 Bressanone, Italy

Awards

- Pecha Kucha Finalist 2014 at IEEE International Conference on Robotics and Automation (ICRA 2014), Honk Kong.
- Awarded by Comitato Studi EuroCeph (Graziano Fiorito, Stazione Zoologica Anton Dohrn; Paul Andrews, St George University of London; Ludovic Dickel, Université de Caen Basse-Normandie; Nadav Shashar, Ben Gurion University), assigned price by Torsten Wiesel, Nobel Prize in Medicine, 1981. L. Margheri, B. Mazzolai, P. Dario, C. Laschi "A bioengineering approach for in vivo measurements of the octopus arms". EuroCeph2011 Conference

Projects

- OCTOPUS Integrating Project (FP7 ICT-2007.8.5 FET Proactive, Embodied Intellligence, contract #231608, 2009-2013, total EU contribution: 7,6 M€, http://www.octopus-project.eu/)
- RoboSoft - A Coordination Action for Soft Robotics (FP7-ICT-2013-C FET Open, Challenge Current Thinking, contract #619319, 2013-2016, total EU contribution: 952 960 €, http://www.robosoftca.eu/)
- SMART-E: Sustainable Manufacturing through Advanced Robotics Training in Europe (FP7-PEOPLE-2013-ITN, Marie Curie Doctoral Training Network, contract # 608022, 2013-2017, total EU contribution 3,9 M€, http://smart-e-mariecurie.eu/)
- FLAG-ERA (www.flag-era.eu)

Memberships

- IEEE RAS Member
- IEEE WIE Member
- IEEE EMBS Member

Livorno, Italy
June 2016

Laura Margheri