

## PERSONAL INFORMATION

Carlo Emilio Standoli

## POSITION

Full Time Junior Researcher (art. 24 - L. 240 del 30.12.2010)

## WORK EXPERIENCE

16/07/2017– 05/07/2020

**Research Fellow**

Politecnico di Milano - Dipartimento di Design, Milano (Italy)

Research Title: Ergonomics and Design of Working Places

Supervisor: Prof. Giuseppe Andreoni

07/10/2019–Present

**Adjunct Professor**

Università di Camerino - Scuola di Ateneo di Architettura e Design "Eduardo Vittoria", Ascoli Piceno (Italy)

Bachelor of Science in Industrial and Environmental Design

User-Centred Design Studio - Design and Ergonomics (8 CFU)

01/09/2019–28/02/2020

**Adjunct Professor**

Politecnico di Milano - Scuola del Design, Milano (Italy)

Bachelor of Science in Product Design

Final Synthesis Studio - Product Design Module (4 CFU)

11/03/2019–28/02/2020

**Adjunct Professor**

Università di Camerino - Scuola di Ateneo di Architettura e Design "Eduardo Vittoria", Ascoli Piceno (Italy)

Bachelor of Science in Industrial and Environmental Design

Ergonomics - monodisciplinary laboratory (8 CFU)

01/09/2018–28/02/2019

**Adjunct Professor**

Politecnico di Milano - Scuola del Design, Milano (Italy)

Bachelor of Science in Product Design

Final Synthesis Studio - Product Design Module (4 CFU)

01/06/2013–15/07/2018

**Research Fellow**

Politecnico di Milano - Dipartimento di Design, Milano (Italy)

Research Title: Physiological aspects of Emotional Design and Interaction with Product/Service/System

Supervisor: Prof. Giuseppe Andreoni

01/09/2017–28/02/2018

**Adjunct Professor**

Politecnico di Milano - Scuola del Design, Milano (Italy)

Bachelor of Science in Product Design

Final Synthesis Studio - Product Design Module (4 CFU)

## EDUCATION AND TRAINING

- 01/11/2012–09/03/2016 **PhD in Design** EQF level 8  
 Politecnico di Milano - Dipartimento di Design, Milano (Italy)  
 PhD in Design - XXVIII ciclo  
 Chair of PhD Program: Prof. Luca Guerrini  
 Supervisor: Prof. Giuseppe Andreoni  
 External Examiner: Prof. Elena Mugellini  
 Research Title: Measuring Product Experience  
 A methodology based on a multimodal approach to assess emotional responses elicited from Human-Product Interaction
- 01/03/2009–20/12/2011 **Master of Science in Integrated Product Design** EQF level 7  
 Politecnico di Milano - Facoltà del Design, Milano (Italy)  
 Supervisor: Prof. Giuseppe Andreoni  
 Assistant Supervisor: Prof. Maximiliano Romero, Ing. Giancarlo Vazzoler
- 01/09/2005–24/02/2009 **Bachelor of Science in Product Design** EQF level 6  
 Politecnico di Milano - Facoltà del Design, Milano (Italy)  
 Supervisor: Prof. Giuseppe Andreoni
- 25/09/2017–27/09/2017 **Corso di formazione – SantosHuman Inc.**  
 Santos Digital Human Modeling Course
- 09/10/2016–10/10/2016 **EPM International Seminar – Ergonomia della Postura e del Movimento.**  
 EPM – International Ergonomic School.  
 La prevenzione e gestione del rischio da sovraccarico biomeccanico: nuove tecniche di studio delle posture, nuove banche dati clinici ed altre news.
- 08/04/2013–14/04/2013 **Easter Short Courses - Enhanced Illustration: Pen, Pencil, Paint & Pixels.**  
 University of the Arts London, Central Saint Martins College.  
 The course reflects the trend among illustrators to combine materials like pencils, pens, inks, watercolours and pastels with up-to-date computer methods. The course explores thinking, creating and working as professional illustrators do
- 07/10/2008–13/11/2008 **Corso di formazione permanente - Lighting Design dai Fondamenti al CAD - 4a edizione**  
 Laboratorio Luce, Politecnico di Milano.  
 Lighting Design Fundamentals
- 15/08/2007–19/08/2007 **VITRA Summer Workshop - Design for the Outside**  
 Domaine de Boisbuchet - Design, Architecture and Nature  
 VITRA Summer Workshop - Design for the Outside

## ROLE AND EXPERIENCES

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Carlo Emilio is a PhD in Design and graduated in Integrated Product Design at Politecnico di Milano.

Currently, he is a Researcher at the Department of Design at Politecnico di Milano, and Adjunct Professor at the School of Design of Politecnico di Milano and at the "Eduardo Vittoria" School of Architecture and Design (SAAD) of Università di Camerino.

He works with the TEDH - Technology and Design for Healthcare Research Laboratory, where he deals with research, analysis and design of products, systems and services for the health and well-being of people. Besides, he is a member of the Pharma Design Studies Research Group, which deals with the interaction of users with products and cure & care processes, and users experience. He actively participates in research projects, at a national and international level, dealing with the relationship between users and technology.

He is responsible for University courses on Ergonomics, Human-Centred Design and User Studies, Human-Product Interaction and the related design issues; he is supervisor and co-supervisor of students' Bsc and Msc thesis; he supports students during their Erasmus mobility (in the application process, during their daily life in the partner locations, up to their return).

He was elected as Research Fellows' Representative in the Department of the Design Board. He participated as a member of the Politecnico Working group for promoting the European Charter & Code for Researchers.

## RESEARCH ACTIVITIES

### Research Activities and Skills

Carlo Emilio works with the TEDH Laboratory, a multidisciplinary research group that integrates different skills, including engineering, medical and design. His research activity is mainly aimed at studying the interaction between users and products, systems and services, both at the research and analysis level, and in the design of innovative solutions, starting from the characteristics of the user and his/her needs. In particular, he explores the healthcare research field, in its physical, cognitive and social domains, always analyzed through the filter of Design Culture. Over the years, this has been translated into several projects, such as the design of aids for walking and the practice of play-rehabilitation activities for children, of sensorized wearable systems for personal care both in the hospital and at home, of products-services for the promotion of correct lifestyles.

His research activity concerns areas such as Ergonomics and Human Factor, in which he was able to develop new index and systems for the evaluation of work activities, to reduce the work-related musculo-skeletal risks for workers; moreover, he was involved in the evaluation and redesign of aids and furnishings, Interaction Design, in which he designed and evaluated interactive products and systems, and User Studies.

His research also deals with the critical study of the role of technology, that is, its integration into everyday life and its pervasiveness, analyzing the languages adopted to make it understandable and usable by different users, concerning their activities and in the different contexts of use (considering both usability and user experience). This activity is translated into continuous, iterative and interdependent research on the user, the technologies and the context of daily life, which is further deepened both in the experimental field (through applied research projects and degree thesis) and in the teaching field.

In these research and teaching paths, Carlo Emilio adopts Human-Centered methodologies and participatory design approaches; the study of users (not only intended as end-users or consumers), their involvement in the design process, and situated research, represent the basis of each activity. Besides, his research deals with Emotional Design, which Carlo Emilio explored during his PhD. In this context, he analyzed the role of wearable systems and tools for monitoring human physical and physiological parameters, in evaluating the interaction between users, products and environments, and how these can be used to develop new index and methodologies to quantify its emotional and hedonistic component. The ultimate goal was to make these systems accessible to non-expert users, in terms of both functionality and usability, and for the methods of use and languages used, to support their design process.

Finally, he is interested in methods and tools of digital manufacturing, to explore new fields of application, both in the field of health and experimentation with new materials.

Participation in various research projects at the international, national and regional level has allowed him to create a network of contacts, national and international, public and private, with which he actively collaborates.

### Research Activity and management in International and National Projects

**Task Leader in the European Project NESTORE** - Novel Empowering Solutions and Technologies for Older people to Retain Everyday life activities, funded by the European Union - Framework Program H2020 (RIA in the Call: H2020-SC1-2016-2017 - Topic: SC1-PM- 15-2017: Personalized coaching for well-being and care of people as they age - Grant Agreement n ° 610727). <https://nestore-coach.eu>.

**Work Package Leader in the European Project PEGASO** - Personalized Guidance Services for Optimizing lifestyle in teen-agers through awareness, motivation and engagement, funded by the European Union - 7.th Framework Program (Integrated Project in the call FP7 - ICT - 2013.5.1 - Grant Agreement No. 610727), period 2013-2017. [www.pegasof4f.eu](http://www.pegasof4f.eu).

**Project Manager and operational manager in the Esselunga S.p.A. Project** - Ergonomic analysis and development of index and models for the Work-related musculo-skeletal disorders of large-scale retail trade workers.

**Project Manager and operational manager in the GIOCOSO Project** - *GIOchi pediatrici per la COmunicazione e la Socializzazione per bambini in età prescolare*. Co-financed by Regione Lombardia in the Smart Cities PORL FESR 2007-2013 call.

**Project manager and operational manager of the research collaboration with ESAOTE S.p.A.**

- Research activities for the development of ultrasound evaluation index, for the design and evaluation of probes and ultrasound systems. This collaboration concerns the enhancement of the Culture of Design within B2B companies, not only intended as a process of designing artefacts but also as a strategy and corporate vision.

**Participation in the activities of the following projects:**

- **De\_Forma**. Basic Research Project financed with FARB funds by the Department of Design at Politecnico di Milano. The project investigates the relationship between methods and tools typical of Digital Manufacturing, with the processes of biofabrication and culture of materials (i.e. Growing Materials), through the point of view of the Culture of Design;
- **Curati con la cura! - Care for Care!** Basic Research Project financed with FARB funds by the Department of Design at Politecnico di Milano. The project concerns the study of treatment processes and the system of interaction between patients, medical doctors and pharmaceutical products, in the context of home and extra-hospital care, with a design-oriented approach;
- **Esselunga S.p.A. - Aids for operators of large-scale retail trade**. The research project explores the market of active and passive exoskeletons, to evaluate their potential adoption in the context of organized large-scale distribution;
- **Partitalia**. The project concerns the definition of guidelines and requirements for the design of wearable devices for the picking and manual handling of loads;
- **TUTA**. In this project, an innovative multi-parameter wearable system was developed and tested for the monitoring and evaluation of the rehabilitation act and the reintegration of people into work. The project is funded by INAIL and the Lombardy Region;
- **The Jetsons' Kitchen - recycling of washing waste for domestic cultivation**. Identification of use scenarios and prototyping of a functioning system for the recycling of washing wastewater for indoor cultivation;
- **Digital Dioramas for IWB** (Interactive Multimedia Whiteboard). The project concerns the development and diffusion of a digital platform, to be used in the educational field, for the remote use of the dioramas present in the Natural History Museums. Funded by MIUR - Directorial Decree 26 June 2012 n. 369;
- **SMARTA** - Development of a system for home environmental monitoring, with a network of sensors and wearable telemonitoring, to support health, prevention and safety services for active ageing. Co-financed by the Lombardy Region in the Smart Cities PORL FESR 2007-2013 call;
- **INAIL EASYRIDER** - Design of aids and bicycles for disabled children, to encourage socialization and rehabilitation in a playful context. In collaboration with INAIL and Atala S.p.A. ;
- **INAIL PARABIKE** - Handbike design and posture assessment in view of the 2012 London Paralympics. In collaboration with INAIL and the Italian Paralympic Committee;
- **INAIL WORKABLE** - Ergonomics and automation for the accessibility of the workstations. In collaboration with INAIL.

The research deals methods and tools of digital manufacturing, to explore new fields of application, both in the field of health and experimentation with new materials, through the Design Culture lens.

This project was funded by the Department of Design at Politecnico di Milano, the research group is coordinated by Patrizia Bolzan, and includes Daria Casciani, Erminia d'Itria, Flavia Papile, Stefano Parisi, Barbara Pollini e Carlo Emilio Standoli.

#### **Member of the Research Group *Pharma Design Studies***

The group began the research *Care for Care! Shaping Medication to Avoid Treatment Inaccuracy. Design Culture between Identity, Communication and Use Handling*. The research group is committed to approaching the issues of medications from the design perspective, referring primarily to healthcare-related to in-home medication and therapy accessibility. This project was funded by the Department of Design at Politecnico di Milano, the *Pharma Design Studies* is coordinated by Antonella Valeria Penati, and includes Giuseppe Andreoni, Valeria Bucchetti, Elena Caratti, Valeria Iannilli, Silvia Pizzocaro, Agnese Rebaglio, Dina Riccò, Laura Sabetta, Carlo Emilio Standoli, and Umberto Tolino.

#### **Member of the *TEDH – Technology and Design for Healthcare Laboratory***

The Lab, guided by Prof. Giuseppe Andreoni, deals with basic and applied research in the fields of Healthcare and Wellbeing, Ergonomics and Human Factors, Interaction and Experience Design.

### Participation in Scientific Societies

#### **Member of the SID – Società Italiana di Design**

Italian Design Cultural and Scientific Identity and Heritage.

### Granted Patents

Antonelli, M., Santoro, F., Canins, C., Vezzoli, C., Costa, F., Vignati, G., Migliore, L., Carboniero, A., Congestri, R., Krasojevic, K., Perini, N., Savio, S., Spanò, S., Rotini, A., Mangiarotti, R., Meraviglia, M., Buratti, G., Di Mauro, M., Nebuloni, A., Perego, P., Sironi, R., Spanu, F., **Standoli, C.E.**, Ziyadee, M., Laprocina, S., Amati A. (2019). *Sistema per il riciclo di reflui del processo di lavaggio e risciacquo di una lavastoviglie, specialmente per riutilizzo nel processo stesso e per irrigazione di vegetali, e processo per l'utilizzo di detto sistema*. Brevetto n.102019000004583, Politecnico di Milano, Verde Profilo s.r.l., KA-WE s.r.l., MEG s.r.l., Università degli Studi di Roma "Tor Vergata", Spintalia s.r.l.

### PUBLICATIONS

#### **Books and Chapters**

- Forzoni, L., **Standoli, C. E.**, De Luca, R., & Andreoni, G. (2019). *DHM applied to ergonomic design and assessment of diagnostic ultrasound systems*. In DHM and Posturography (pp. 559-568). Academic Press. Hardcover ISBN 9780128167137, eBook ISBN: 9780128168837.
- Sironi, R., **Standoli, C. E.**, Perego, P., & Andreoni, G. (2019). *Digital human modelling and ergonomic design of sleeping systems*. In DHM and Posturography (pp. 385-396). Academic Press. Hardcover ISBN 9780128167137, eBook ISBN: 9780128168837.
- Costa, F. C. E., Aureggi, M. G., Luciana, M., Perego, P., Pillan, M., **Standoli, C. E.** & Vignati, G. (2019). *Design for sustainability and ICT: a household prototype for wastewater recycling*. In: (a cura di): Marcelo Ambrosio & Carlo Vezzoli, *Designing sustainability for all*. p. 869-872, Milano: Edizioni POLI.design, ISBN: 978-88-95651-26-2.
- Poli, A., Gambini, A., Pezzotti, A., Broglia, A., Mazzola, A., Muschiato, S., **Standoli, C. E.**, Zambarbieri, D. & Costa, F. (2018). *Digital Diorama: An Interactive Multimedia Resource for Learning the Life Sciences*. In *Optimizing Human-Computer Interaction with Emerging Technologies* (pp. 52-82). IGI Global. ISBN: 9781522526162, doi: 10.4018/978-1-5225-2616-2.ch003.
- Andreoni, G., **Standoli, C. E.**, Rezzonico, F., Rojas, L., & Forzoni, L. (2018). *Digital Human Modelling Method for the Evaluation of the Ultrasound System and Transducer Design Adherence to the SDMS Industry Standards*. In *International Conference on Intelligent Human Systems Integration* (pp. 393-401). Springer, Cham. [https://doi.org/10.1007/978-3-319-73888-8\\_61](https://doi.org/10.1007/978-3-319-73888-8_61).
- Lenzi, S. E., **Standoli, C. E.**, Andreoni, G., Perego, P., & Lopomo, N. F. (2018). *Comparison Among Standard Method, Dedicated Toolbox and Kinematic-Based Approach in Assessing Risk of*

*Developing Upper Limb Musculoskeletal Disorders*. In International Conference on Applied Human Factors and Ergonomics (pp. 135-145). Springer, Cham. ISBN 978-3-319-94618-4. - <https://doi.org/10.1007/978-3-319-94619-1>.

- **Standoli, C. E.**, Lenzi, S. E., Lopomo, N. F., Perego, P., & Andreoni, G. (2018). *Using Digital Human Modeling to Evaluate Large Scale Retailers' Furniture: Two Case Studies*. In International Conference on Applied Human Factors and Ergonomics (pp. 512-521). Springer, Cham. ISBN 978-3-319-94222-3 - <https://doi.org/10.1007/978-3-319-94223-0>
- **Standoli, C. E.**, Guarneri, M. R., Ferrara, M., & Andreoni, G. (2016). *A Didactic Experience in Designing Smart Systems for mHealth Services*. In International Conference on Wireless Mobile Communication and Healthcare (pp. 187-194). Springer, Cham. ISBN 978-3-319-58876-6 - [https://doi.org/10.1007/978-3-319-58877-3\\_25](https://doi.org/10.1007/978-3-319-58877-3_25)

#### Papers in peer-reviewed national and international scientific Journals (Classe A)

- Penati A. V., Pizzocaro S., Tonelli C., **Standoli C. E.**, Iannilli, V. M., Bucchetti V., Rebaglio A., Riccò D., Andreoni G., Caratti E. & Tolino U. (2020). *Scienza al quotidiano: farmaci come oggetti*. In DIID. Disegno Industriale Industrial Design (69), ISSN 1594-8528. **In press**

#### Papers in peer-reviewed national and international scientific Journals

- **Standoli, C. E.**, Guarneri, M. R., Perego, P., Mazzola, M., Mazzola, A., & Andreoni, G. (2016). *A smart wearable sensor system for counter-fighting overweight in teenagers*. In: Sensors, 16(8), 1220. ISSN: 1424-8220, doi: 10.3390/s16081220.
- Andreoni, G., **Standoli, C. E.** & Perego, P. (2016). *Defining requirements and related methods for designing sensorized garments*. In: Sensors, 16(6), 769. ISSN: 1424-8220, doi:10.3390/s16060769.
- Andreoni, G., Mazzola, M., Perego, P., **Standoli, C. E.**, Manzoni, S., Piccini, L., & Molteni, F. (2014). *Wearable monitoring devices for assistive technology: case studies in post-polio syndrome*. In: Sensors, 14(2), 2012-2027. ISSN: 1424-8220, doi: 10.3390/s140202012

#### Proceedings of peer-reviewed national and international Scientific Conferences

- **Standoli, C. E.**, Lopomo N. F., Lenzi S. E. & Andreoni G. (2020). *Proactive Analysis of Complex Systems through DHM: Paradigmatic Application of an Innovative Ergonomic Cumulative Index to Large Retail Stores*. In HCI International 2020 – 22<sup>nd</sup> International Conference on Human-Computer Interaction. **In press**
  - **Invited Paper** at the following session: Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management.
- Lopomo N. F., Mosna P., Lenzi S. E., **Standoli, C. E.**, Perego P., Negrini S. & Andreoni G. (2020). *A reliable and inexpensive integration of Virtual Reality and Digital Human Modeling to estimate cervical spine function*. In HCI International 2020 – 22<sup>nd</sup> International Conference on Human-Computer Interaction. **In press**.
- Iannilli, V. M., Penati, A. V., & **Standoli, C. E.** (2019). *Learning from mistakes. Patient centric design education experience*. In ICERI2019-12th International Conference of Education, Research and Innovation (pp. 7804-7810). IATED Academy. ISSN: 2340-1095, doi: 10.21125/iceri.2019.1851.
- Forzoni, L., De Luca, R., Terraroli, M., Spelta, F., & **Standoli, C. E.** (2019). *Design Culture Within the B2B Needs Roadmap*. In International Conference on Human Systems Engineering and Design: Future Trends and Applications (pp. 730-736). Springer, Cham. ISBN: 978-3-030-27927-1, doi:10.1007/978-3-030-27928-8\_111.
- De Luca, R., Forzoni, L., Spezia, F., Rezzonico, F., **Standoli, C. E.** & Andreoni, G. (2019). *Ergonomic Design Process of the Shape of a Diagnostic Ultrasound Probe*. International Conference on Human Systems Engineering and Design: Future Trends and Applications, 16-18 September, Munich, Germany, pp. 718 – 723, Springer, Cham.
- Costa, F., Amati, A., Antonelli, M., Cocetta, G., Di Mauro, M., Ferrante, A., Krasojevic, K., Mangiarotti, R., Meraviglia, M., Nebuloni, A., Perego, P., Sironi, R., Spanu, F., **Standoli, C. E.**, Vignati, G., Volonté, P., Ziyadee, M. & Migliore, L. (2018). *Designing the future: an intelligent system for zero-mile food production by upcycling wastewater*. In Multidisciplinary Digital Publishing Institute Proceedings (Vol. 2, No. 22, p. 1367). Proceedings, vol. 2, p. 1367-1370, ISSN: 2504-

3900, doi:10.3390/proceedings2221367.

- **Standoli, C. E.**, Lenzi, S. E., Lopomo, N. F., Perego, P. & Andreoni, G. (2018). *The Evaluation of Existing Large-Scale Retailers' Furniture Using DHM* (2018). In Proceedings of the Congress of the International Ergonomics Association, Florence, Italy, August 2018, Springer, Cham, eBook ISBN 978-3-319-96080-7, DOI 10.1007/978-3-319-96080-7, Softcover ISBN 978-3-319-96079-1 pp. 339-350.
- Lenzi, S.E., **Standoli, C.E.**, Andreoni, G., Perego, P. & Lopomo, N.F. (2018). *A Software Toolbox to Improve Time-Efficiency and Reliability of an Observational Risk Assessment Method*. In Proceedings of the Congress of the International Ergonomics Association, Florence, Italy, August 2018, Springer, Cham, eBook ISBN 978-3-319-96080-7, DOI 10.1007/978-3-319-96080-7, Softcover ISBN 978-3-319-96079-1, pp. 689-708.
- **Standoli, C. E.**, Lenzi, S. E., Lopomo, N. F., Perego, P., & Andreoni, G. (2018, July). *Using Digital Human Modeling to Evaluate Large Scale Retailers' Furniture: Two Case Studies*. In International Conference on Applied Human Factors and Ergonomics (pp. 512-521). Springer, Cham. ISBN: 978-3-319-94222-3, doi: 10.1007/978-3-319-94223-0\_49
- Lenzi, S. E., **Standoli, C. E.**, Andreoni, G., Perego, P. & Lopomo, N.F. (2018) *Comparison Among Standard Method, Dedicated Toolbox and Kinematic-Based Approach in Assessing Risk of Developing Upper Limb Musculoskeletal Disorders*. In Proceedings of the International Conference on Applied Human Factors and Ergonomics (pp. 135-145). Springer, Cham.
- Andreoni, G., **Standoli, C. E.**, Rezzonico, F., Rojas, L. & Forzoni, L. (2018). *Digital Human Modelling Method for the Evaluation of the Ultrasound System and Transducer Design Adherence to the SDMS Industry Standards*. International Conference on Intelligent Human Systems Integration. pp. 393 – 401, Springer, Cham.
- **Standoli, C.E.**, Guarneri, M.R., Ferrara, M. & Andreoni, G. (2016). *A didactic experience in designing smart systems for mHealth services*, Mobihealth 2016 – Conference Proceedings Paper of the 6th EAI International Conference on Wireless Mobile Communication and Healthcare - Transforming healthcare through innovations in mobile and wireless technologies". Milano, Italy, 14-16 November. pp. 1-9.
- **Standoli, C. E.**, Costa, F. C. E., Mazzola, A., Muschiato, S., & Zambarbieri, D. (2015). *User Experience of Digital Dioramas for Interactive Whiteboard*. In 9th International Conference on Interfaces and Human-Computer Interaction (pp. 75-83). ISBN: 978-989-8533-38-8.
- Carrion, C., Caon, M., Carrino, S., Moliner, L. A., Lang, A., Atkinson, S., Mazzola, M., Perego, P., **Standoli, C.E.**, Castell, C. & Espallargues, M. (2015). *Wearable lifestyle tracking devices: are they useful for teenagers?*. In Adjunct Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2015 ACM International Symposium on Wearable Computers (pp. 669-674). ISBN: 9781450335751, doi: 10.1145/2800835.2809442
- **Standoli, C. E.**, Perego, P., Mazzola, M., Mazzola, A., Guarneri, R. & Andreoni, G. (2015). *PEGASO: A smart wearable sensors system for counter-fighting overweight in teenagers*. In Proceedings of the 2nd Int. Electron. Conf. Sens. Appl., 15–30 November 2015; Sciforum Electronic Conference Series, Vol. 2. S3002; doi:10.3390/ecsa-2-S3002.
  - **Selezionato per pubblicazione in rivista.**
- Andreoni, G., **Standoli, C. E.** & Perego, P. (2015). *Sensorized Garments for biomedical monitoring: Design issues*. In Proceedings of the 2nd Int. Electron. Conf. Sens. Appl., 15–30 November 2015; Sciforum Electronic Conference Series, Vol. 2. S3003; doi:10.3390/ecsa-2-S3003.
  - **Selezionato per pubblicazione in rivista.**
- Perego, P., **Standoli, C. E.** & Andreoni, G. (2015). *Wearable monitoring of elderly in an ecologic setting: the SMARTA project*. In Proceedings of the 2nd Int. Electron. Conf. Sens. Appl., 15–30 November 2015; Sciforum Electronic Conference Series, Vol. 2. S3001; doi:10.3390/ecsa-2-S3001.
- **Standoli, C.E.**, Romero, M., Vazzoler, G. & Andreoni, G. (2014). *An innovative bike for children play and rehabilitation*, In: Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics AHFE 2014, Kraków, Poland 19-23 July 2014 - Edited by T. Ahram, W. Karwowski and T. Marek, pp. 1831 – 1839 - ISBN 978-1-4951-1572-1.
- Mazzola, M., Forzoni, L., D'Onofrio, S., **Standoli, C. E.** & Andreoni, G. (2014). *Using Santos DHM to design the working environment for sonographers in order to minimize the risks of*

*musculoskeletal disorders and to satisfy the clinical recommendations*, In: Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics AHFE 2014, Kraków, Poland 19-23 July 2014 - Edited by T. Ahran, W. Karwowski and T. Marek – pp 2384 – 2393- ISBN 978-1-4951-1572-1.

- Andreoni, G., Costa, F., Dall'Amico, M., Frigo, C., Gruppioni, E., Muschiato, S., Pavan, E., Piccoli, M., Romero, M., Saldutto, B. G., **Standoli, C. E.**, Verni, G. & Vignati, G. (2014). *Participatory Workplace development for disabled workers reintegration*, in Proceedings of the 5th International Conference on Applied Human Factors and Ergonomics AHFE 2014, Kraków, Poland 19-23 July 2014 - Edited by T. Ahran, W. Karwowski and T. Marek – pp 7223 – 7233 - ISBN 978-1-4951-1572-1.
- **Standoli, C. E.**, Romero, M. E., & Vazzoler, G. (2012). *Learning product design for particular needs: 3ike case study, a bike for children with cerebral palsy*. In: Proceedings of EDULEARN12 - 4th International Conference on Education and New Learning Technologies. Barcelona, Spain. ISBN: 9788469534915.

## INSTITUTIONAL AND MANAGEMENT ROLES

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### **Reserch Fellows' Representative**, in the Department of Design Board

Department of Design, Politecnico di Milano.

Elected from the Research Fellows on January 13<sup>th</sup>, 2020, for the 3 years period 2020/22.

### **Erasmus Exchange Promoter**

School of Design, Politecnico di Milano.

Promoter, students' applications evaluator, and mentoring for the Erasmus Exchange programme, for the following Universities:

- Mondragon Unibertsitatea - Escuela Politécnica Superior. Mondragon (ES);
- Universidad de Sevilla - EPS - Escuela Politecnica Superior. Sevilla (ES);
- Moholy-Nagy Muvészeti Egyetem - University of Art and Design. Budapest (HU);
- Universidad Catolica de Santa Fe - Facultad de Arquitectura - Diseño Industrial. Santa Fe (ARG).

### **Member of the Department of Design Editorial Board**

Department of Design, Politecnico di Milano.

### **Reserch Fellows' Representative**, in the Department of Design Board

Department of Design, Politecnico di Milano.

Elected from the Research Fellows on February 7<sup>th</sup>, 2017, for the 3 years period 2017/19.

### **Member of the Politecnico Working group** for promoting the **European Charter & Code for Researchers**.

Politecnico di Milano.

## TEACHING ACTIVITIES

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### Teaching Activities

#### **Academic Year 2019/2020**

**Politecnico di Milano, School of Design** - Product Design BSc

- Adjunct Professor, Final Synthesis Studio - Product Design Module (4 CFU);
- Teaching Assistant, Industrial Design Studio.

**Università di Camerino, SAAD - Scuola di Ateneo di Architettura e Design "Eduardo Vittoria" - Industrial and Environmental Design BSc**

- Adjunct Professor, User-Centred Design Studio - Design and Ergonomics (8 CFU)

#### **Academic Year 2018/2019**

**Politecnico di Milano, School of Design - Product Design BSc**

- Adjunct Professor, Final Synthesis Studio - Product Design Module (4 CFU);
- Teaching Assistant, Industrial Design Studio.

**Università di Camerino, SAAD - Scuola di Ateneo di Architettura e Design "Eduardo Vittoria" - Industrial and Environmental Design BSc**

- Adjunct Professor, Ergonomics - monodisciplinary laboratory (8 CFU).

#### **Consorzio POLI.Design**

- Adjunct Professor, Master in Transportation & Automobile Design XI edizione - Lesson on qualitative and quantitative methods for Human-product Interaction (e.g. Eye Tracking);
- Adjunct Professor, Master in Strategic Design - Building New Businesses and Strategies through Design 2018/2020 - Lesson on qualitative and quantitative methods for Human-product Interaction (e.g. Eye Tracking);
- Expert supporting teams in the Workshop UPUNOR – Phase III.

#### **Academic Year 2017/2018**

**Politecnico di Milano, School of Design - Product Design BSc**

- Adjunct Professor, Final Synthesis Studio - Product Design Module (4 CFU);
- Teaching Assistant, Industrial Design Studio.

#### **Academic Year 2016/2017**

**Politecnico di Milano, School of Design - Integrated Product Design MSc**

- Teaching Assistant - Human-Centered Design Course.

**Politecnico di Milano, School of Design - Product Design BSc**

- Teaching Assistant, Industrial Design Studio - Next Future Lab II.

#### **Academic Year 2015/2016**

**Politecnico di Milano, School of Design - Product Design BSc**

- Teaching Assistant, Final Synthesis Studio - Next Solutions for living futures;
- Teaching Assistant, Final Synthesis Studio - Verso la Smart City: design di sistemi intelligenti per la vita e il benessere delle persone;
- Teaching Assistant, Industrial Design Studio- Design for Humans, Wellness and Sport.

#### **Academic Year 2014/2015**

**Politecnico di Milano, School of Design - Product Design BSc**

- Teaching Assistant, Workshop - Il Vetro e le Nuove Tecnologie;
- Teaching Assistant, Design of Systems for Healthcare Course.

#### **Academic Year 2013/2014**

**Politecnico di Milano, School of Design - Product Design BSc**

- Teaching Assistant, Final Synthesis Studio;
- Teaching Assistant, Ergonomics for Design.

## PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

|         | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
|         | Listening     | Reading | Spoken interaction | Spoken production |         |
| English | C1            | C1      | C1                 | C1                | C1      |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages - Self-assessment grid

Digital skills

| SELF-ASSESSMENT        |                 |                  |                 |                 |
|------------------------|-----------------|------------------|-----------------|-----------------|
| Information processing | Communication   | Content creation | Safety          | Problem-solving |
| Proficient user        | Proficient user | Independent user | Proficient user | Proficient user |

Digital skills - Self-assessment grid

Proficient User of Windows and Mac OS;

Proficient User of Microsoft Office Suite (Word, Excel, Powerpoint);

Proficient User of Adobe Creative Suite (Illustrator, Photoshop)

Milano, 07.10.2020

F.to

CARLO EMILIO STANDOLI