

FEDERICO FRABONI

RESEARCH FELLOW

CONTACT INFORMATION



EDUCATION

Ph.D. in Psychology

33rd Cycle, Alma Mater Studiorum – University of Bologna, Department of Psychology
November 2017 - October 2020
Final Dissertation on 24/3/2021

MSc in Work, Organisational and Personnel Psychology

Erasmus Mundus WOP-P Master with Double Degree at University of Bologna and University of Valencia

Rating 105/110

Title of the Master Thesis: “Emotional Workload and Emotional Labour in Healthcare Workers: Surface Acting Differently Mediate Positive and Negative Outcomes”

Supervisor: prof. Dina Guglielmi

September 2012 - July 2014

Bachelor's degree in Psychology, Behavioural Sciences and Social Relations

Department of Psychology, Campus of Cesena, Alma Mater Studiorum – University of Bologna

September 2008 - February 2012

High school diploma

Liceo Scientifico Augusto Righi, Bologna

September 2003 - July 2008

INTERNATIONAL MOBILITY

Ph.D. Mobility

German Aerospace Centre (DLR e.V.), Institute of Transportation Systems

March - April 2019

WOP-P Winter School

Two weeks Joint Intensive Learning Unit

February 2014

ERASMUS-MUNDUS WOP-P Programme Mobility

University of Valencia. Exams passed during the Erasmus period:

- Corporate Strategies module 1 - prof. Teresa Canet

- Corporate Strategies module 2 - prof. Josè Pla

- Labour Law - Prof. Fernando Fita

- Marketing - Prof. Martina González-Gallarza Granizo

- Methodology - prof. Ines Tomas

January - July 2013

PROFESSIONAL EXPERIENCE

Post Doc. Research Fellowship

Department of Psychology - University of Bologna

Human Factors, Risk and Safety research group coordinated by prof. Luca Pietrantoni

The impact of innovative digital technologies in Small and Medium Enterprises (SMEs) and the Public Sector. 132808
- Prot. n. 1367 del 09/10/2020

November 2020 – Currently Ongoing

Research Fellowship

Department of Psychology - University of Bologna

Human Factors, Risk and Safety research group coordinated by prof. Luca Pietrantoni

Research activities on risk behaviour in traffic, support to the coordination activities of the XCYCLE project funded under the Horizon 2020 programme of the European Commission.

November 2015 – November 2017

Professional Internship at Studio Méta & associates

Relevant activities carried out:

- Coordination in the organisation of training/informative seminars in the CIOF of Marche Region, in the habit of the Va.Li.Co project concerning the implementation of the Citizen's Training Booklet service.
- Educational tutoring and support activities for the coordination of the training course for operators in charge of the Technical Booklet within the Va.Li.Co project in the CIOF of Marche Region.
- Support activities in a project of transition from a funded training agency to a job centre on the market.
- Support activities to the European project Valbuk and publication of the article "Innovating human resources in the cleaning sector in Europe" in the magazine *Formazione Domani*, number 3-4/2014.

I also carried out administration activities at the Italian Society of Work and Organizational Psychology (SIPLO) Organisations.

September 2014 - September 2015

Private consultancy with Accordia s.r.l.

Technical assistance activities to the Marche Region in continuity with activities carried out for the Va.Li.Co project during the Professionalising Internship.

September - November 2015

TEACHING ACTIVITIES

Adjunct Lecturer

Social Psychology - Master of Science and Techniques of Preventive and Adapted Motor Activity at the University of Bologna. Teaching of a 20-hour module.

First semester A.A. 2016/2017 – 2017/2018

Job Related Stress - First Cycle Degree/Bachelor in Psychological Sciences and Techniques at the University of Bologna. Teaching of a 21-hour module.

Second semester A.A. 2021/2022

Human and Organizational Factors: Methods and Applications - WOP-P – Master on Work, Organizational, and Personnel Psychology at the University of Bologna. Teaching of a 15-hour module.

Second semester A.A. 2021/2022

Tutoring Grant - WOP-P – Master on Work, Organizational, and Personnel Psychology at the University of Bologna. Supporting students' activities with a 60-hour contract.

A.A. 2017/2018

RESEARCH INTERESTS

Impact of new technologies, Human-Robot Collaboration, Human-Technology Interaction, Behaviour change, Safe and risky behaviours, Human factors and ergonomics, Workplace Safety

Citation Score

H-Index: 11

i10-Index: 12

PUBLICATIONS IN PEER-REVIEWED INTERNATIONAL JOURNALS

1. **Fraboni, F.**, Gualtieri, L., Millo, F., De Marchi, M., Pietrantonio, L., & Rauch, E. (2021, June). Human-Robot Collaboration During Assembly Tasks: The Cognitive Effects of Collaborative Assembly Workstation Features. In *Congress of the International Ergonomics Association* (pp. 242-249). Springer, Cham.
2. Gualtieri, L., **Fraboni, F.**, De Marchi, M., & Rauch, E. (2021, June). Evaluation of Variables of Cognitive Ergonomics in Industrial Human-Robot Collaborative Assembly Systems. In *Congress of the International Ergonomics Association* (pp. 266-273). Springer, Cham.
3. **Fraboni, F.**, Prati, G., Casu, G., De Angelis, M., & Pietrantonio, L. (2021). A cluster analysis of cyclists in Europe: common patterns, behaviours, and attitudes. *Transportation*, 1-30. <https://doi.org/10.1007/s11116-021-10187-3>
4. Millo, F., Gesualdo, M., **Fraboni, F.**, & Giusino, D. (2021, April). Human Likeness in robots: Differences between industrial and non-industrial robots. In *European Conference on Cognitive Ergonomics 2021* (pp. 1-5). <https://doi.org/10.1145/3452853.3452886>
5. Rainieri, G., **Fraboni, F.**, Russo, G., Tušl, M., Pingitore, A., Tessari, A., & Pietrantonio, L. (2021). Visual Scanning Techniques and Mental Workload of Helicopter Pilots During Simulated Flight. *Aerospace Medicine and Human Performance*, 92(1), 11-19. <https://doi.org/10.3357/AMHP.5681.2021>
6. Giusino, D., **Fraboni, F.**, Rainieri, G., De Angelis, M., Tria, A., La Bara, L. M. A., & Pietrantonio, L. (2020, April). Human Factors in Interfaces for Rehabilitation-Assistive Exoskeletons: A Critical Review and Research Agenda. In *International Conference on Human Interaction and Emerging Technologies* (pp. 356-362). Springer, Cham. https://doi.org/10.1007/978-3-030-44267-5_53
7. Prati, G., De Angelis, M., **Fraboni, F.**, Pietrantonio, L., Johnson, D., Shires J., (2020, *in press*). Journey Attributes, E-Bike Use and Perception of Driving Behaviour of Motorists as Predictors of Bicycle Crashes Involvement and Severity: A European Study. *Transportation Research Records* 1-9
8. Rainieri, G., **Fraboni, F.**, Tušl, M., Russo, G., Giusino, D., De Angelis, M., & Pietrantonio, L. (2020, April). Workload and Visual Scanning Techniques of Expert and Novice Helicopter Pilots During Simulated Flight in Open Sea. In *International Conference on Human Interaction and Emerging Technologies* (pp. 39-44). Springer, Cham. https://doi.org/10.1007/978-3-030-44267-5_6
9. Tušl, M., Rainieri, G., **Fraboni, F.**, De Angelis, M., Depolo, M., Pietrantonio, L., & Pingitore, A. (2020). Helicopter Pilots' Tasks, Subjective Workload, and the Role of External Visual Cues During Shipboard Landing. *Journal of Cognitive Engineering and Decision Making*. <https://doi.org/10.1177/1555343420948720>.
10. Giusino, D., **Fraboni, F.**, De Angelis, M., & Pietrantonio, L. (2019). Commentary: Principles, Approaches and Challenges of Applying Big Data in Safety Psychology Research. *Frontiers in Psychology*, 10, 2801. <https://doi.org/10.3389/fpsyg.2019.02801>
11. Prati, G., **Fraboni, F.**, De Angelis, M., & Pietrantonio, L. (2019). Gender differences in cyclists' crashes: an analysis of routinely recorded crash data. *International journal of injury control and safety promotion*, 1-8. <https://doi.org/10.1080/17457300.2019.1653930>
12. Prati, G., **Fraboni, F.**, De Angelis, M., Pietrantonio, L., Johnson, D., & Shires, J. (2019). Gender differences in cycling patterns and attitudes towards cycling in a sample of European regular cyclists. *Journal of Transport Geography*, 78, 1-7. <https://doi.org/10.1016/j.jtrangeo.2019.05.006>

13. De Angelis, M., Stuiver, A., **Fraboni, F.**, Prati, G., Marín Puchades, V., Fassina, F., de Waard, D., & Pietrantoni, L. (2019). Green wave for cyclists: users' perception and preferences. *Applied Ergonomics*, 76, 113-121. <https://doi.org/10.1016/j.apergo.2018.12.008>
14. De Angelis, M., Marín Puchades, V., **Fraboni, F.**, Prati, G., & Pietrantoni, L., (2019). Use of smartphone and crash risk among cyclists. *Journal of Transport Safety and Security*, 1-16. <https://doi.org/10.1016/j.apergo.2018.12.008>
15. De Angelis, M., **Fraboni, F.**, Prati, G., Giusino, D., Depolo, M., Zani, B., Pietrantoni, L., Shires, J., & Johnson, D. (2019). Preferences of European cyclists towards passive and active system with audio-visual and with handlebar vibration warnings. In D. de Waard, K. Brookhuis, D. Choelo, S. Fairclough, D. Manzey, A. Naumann, L. Onnasch, S. Rotther, A. Toffetti, and R. Wiczorek (Eds.). *Proceedings of the Human Factors and Ergonomics Society Europe Chapter 2018 Annual conference*. ISSN 2333-4959 (online). Available from <http://hfes-europe.org>
16. **Fraboni, F.**, Puchades, V. M., De Angelis, M., Pietrantoni, L., & Prati, G. (2018). Red-light running behavior of cyclists in Italy: an observational study. *Accident Analysis & Prevention*, 120, 219-232. <https://doi.org/10.1016/j.aap.2018.08.013>
17. Prati, G., Puchades, V. M., De Angelis, M., Pietrantoni, L., **Fraboni, F.**, Decarli, N., ... & Dardari, D. (2018). Evaluation of user behavior and acceptance of an on-bike system. *Transportation Research Part F: Traffic Psychology and Behaviour*, 58, 145-155. <https://doi.org/10.1016/j.trf.2018.06.005>
18. **Fraboni, F.**, De Angelis, M., Plesnik, D., Altini, A., Depolo, M., Zani, B., Prati, G & Pietrantoni, L. (2018, July). Human-Automation Interaction in Automated Vehicles: An Innovative HMI Design Approach. The Case of Elderly and Cyclists. In *International Conference on Human-Computer Interaction* (pp. 359-366). Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-319-92285-0_48
19. Puchades, V. M., Pietrantoni, L., **Fraboni, F.**, De Angelis, M., & Prati, G. (2018). Unsafe cycling behaviours and near crashes among Italian cyclists. *International journal of injury control and safety promotion*, 25(1), 70-77. <https://doi.org/10.1080/17457300.2017.1341931>
20. Marín Puchades, V., Fassina, F., **Fraboni, F.**, De Angelis, M., Prati, G., de Waard, D., & Pietrantoni, L. (2018). The role of perceived competence and risk perception in cycling near misses. *Safety Science*, 105, 167-177. <https://doi.org/10.1016/j.ssci.2018.02.013>
21. Marín Puchades, V., Prati, G., Rondinella, G., De Angelis, M., Fassina, F., **Fraboni, F.**, & Pietrantoni, L. (2017). Cyclists' Anger As Determinant of Near Misses Involving Different Road Users. *Frontiers in psychology*, 8, 2203. <https://doi.org/10.3389/fpsyg.2017.02203>
22. De Angelis, M., Puchades, V. M., **Fraboni, F.**, Pietrantoni, L., & Prati, G. (2017). Negative attitudes towards cyclists influence the acceptance of an in-vehicle cyclist detection system. *Transportation Research Part F: Traffic Psychology and Behaviour*, 49, 244-256. <https://doi.org/10.1016/j.trf.2017.06.021>
23. Dardari, D., Decarli, N., Guerra, A., Al-Rimawi, A., Puchades, V. M., Prati, G., De Angelis, M., **Fraboni, F.** & Pietrantoni, L. (2017). High-Accuracy Tracking Using Ultrawideband Signals for Enhanced Safety of Cyclists. *Mobile Information Systems*, 2017. <https://doi.org/10.1155/2017/8149348>
24. Prati, G., De Angelis, M., Puchades, V. M., **Fraboni, F.**, & Pietrantoni, L. (2017). Characteristics of cyclist crashes in Italy using latent class analysis and association rule mining. *PloS one*, 12(2), e0171484. <https://doi.org/10.1371/journal.pone.0171484>
25. Prati, G., Marín Puchades, V., De Angelis, M., **Fraboni, F.**, & Pietrantoni, L. (2017). Factors contributing to bicycle-motorised vehicle collisions: a systematic literature review. *Transport Reviews*, 1-25. <https://doi.org/10.1080/01441647.2017.1314391>
26. Prati, G., Pietrantoni, L., & **Fraboni, F.** (2017). Using data mining techniques to predict the severity of bicycle crashes. *Accident Analysis & Prevention*, 101, 44-54. <https://doi.org/10.1016/j.aap.2017.01.008>
27. Fraboni, F., Puchades, V. M., De Angelis, M., Prati, G., & Pietrantoni, L. (2016). Social influence and different types of red-light behaviors among cyclists. *Frontiers in psychology*, 7. <https://doi.org/10.3389/fpsyg.2016.01834>

OTHER PUBLICATIONS

De Angelis, M., Pietrantonio, L., Marín Puchades, V., **Fraboni, F.**, & Prati, G. (2016). International Cycling Safety Conference-Book of abstracts.

PRESENTATIONS AT INTERNATIONAL CONFERENCES

1. **Fraboni, F.**, Gualtieri, L., De Marchi, M., Pietrantonio, L. & Rauch, E. (2022, January). *Improving Workers' Perceived Enjoyment, Stress and Acceptance in Human-Robot Collaboration: An Experimental Study*. Oral presentation at 20th EAWOP congress, Glasgow, Scotland, 11th – 14th January, 2022.
2. **Fraboni, F.**, Guglielmi, D., Mariani, M.G., Borzi, M., Cerruti, C., Pietrantonio, L. (2022, January). *Job Safety in High-Risk Organizations: Integrating Psychosocial Barriers and Human Reliability Models*. Oral presentation at 20th EAWOP congress, Glasgow, Scotland, 11th – 14th January, 2022.
3. **Fraboni, F.**, Gualtieri, L., Millo, F., De Marchi, M., Pietrantonio, L. & Rauch, E. (2021, June). *Human-Robot Collaboration During Assembly Tasks: The Cognitive Effects of Collaborative Assembly Workstation Features*. Oral presentation at IEA 2021, The 21st Triennial Congress of the International Ergonomics Association. Virtual Conference, 14th-18th June, 2021.
4. Gualtieri, L., **Fraboni, F.**, De Marchi, M. & Rauch, E. (2021, June) *Evaluation of Variables of Cognitive Ergonomics in Industrial Human-Robot Collaborative Assembly Systems*. Oral presentation at IEA 2021, The 21st Triennial Congress of the International Ergonomics Association. Virtual Conference, 14th-18th June, 2021.
5. Maugliani, N., Caimmi, M., Malosio, M., Airoidi, F., Borro, D., Rosquete, D., Ausejo, S., Giusino, D., **Fraboni, F.**, Ranieri, G., Pietrantonio, L. & Roveda, L. *Lower-Limbs Exoskeletons Benchmark Exploiting a Stairs-Based Testbed: the STEPbySTEP Project*.
6. **Fraboni, F.**, Rainieri, G., Tušl, M., Russo, G., Giusino, D., De Angelis, M., ... & Pietrantonio, L. (2020, April). *Workload and Visual Scanning Techniques of Expert and Novice Helicopter Pilots During Simulated Flight in Open Sea*. Oral presentation at IHiet 2020. Virtual conference, 27th-29th August, 2020.
7. Giusino, D., **Fraboni, F.**, Rainieri, G., De Angelis, M., Tria, A., La Bara, L. M. A., & Pietrantonio, L. (2020, April). *Human Factors in Interfaces for Rehabilitation-Assistive Exoskeletons: A Critical Review and Research Agenda*. Oral presentation at IHiet 2020. Virtual conference, 27th-29th August, 2020.
8. **Fraboni, F.**, Giusino, D., Rainieri, G., Pietrantonio, L. (October 2019). *Evaluating human factors in the use of lower limbs exoskeletons: A contribution to the first European benchmarking framework*. Oral presentation at TMS 2019 APA conference. Washington, United States of America. 3rd-5th October, 2019
9. Giusino, D., **Fraboni, F.**, De Angelis, M., Pietrantonio, L. (Ottobre 2019). *Barriers and challenges to Big Data uptake in Work and Organisational Psychology: An analytical framework at individual, team, and organisational level*. Oral presentation at TMS 2019 APA conference. Washington, United States of America. 3rd-5th October, 2019
10. De Angelis, M., Tusl, M., Rainieri, G., **Fraboni, F.**, Giusino, D., & Pietrantonio, L. (2019, October). *Helicopter pilots- tasks and external visual cueing during shipboard landing*. Poster presentation at the Annual Meeting 2019 - Human Factors and Ergonomics Society, Europe Chapter. Nantes, France. 2nd-4th October, 2019.
11. Rainieri, G., **Fraboni, F.**, De Angelis, M., Tusl, M., Giusino, D., Tria, A., & Pietrantonio, L. (2019, October). *Usability and interfaces of lower limb exoskeletons: a framework for assessment and benchmark*. Poster presentation at the Annual Meeting 2019 - Human Factors and Ergonomics Society, Europe Chapter. Nantes, France. 2nd-4th October, 2019.
12. **Fraboni, F.**, De Angelis, M., Pietrantonio, L., Tušl, M., Rainieri, G., Prati, G. (2019, May). *Human Factors Issues in Helicopter Landing on Ships*. Poster presentation at 19th EAWOP Congress 2019. Turin, Italy. 29th May – 1st June, 2019.

13. Caimmi, M., Malosio, M., Borro, D., **Fraboni, F.**, Rainieri, G., Pietrantoni, L., Roveda, L. (2019, May). *STEPbySTEP Project: Systematic Test of Exoskeleton Products by a Stairs-based Testbed Evaluation Protocol*. Oral presentation at the International Conference on Robotics and Automation (ICRA), Montreal, 20-24 May, 2019
14. **Fraboni, F.**, Pietrantoni, L., Gimm, K., Dotzauer, M., De Angelis, M., Prati, G. (2018, November). *XCYCLE's innovative measures to increase cycling safety: Infrastructure and human factors*. Oral presentation at the 2018 Polis Conference: Innovation in Transport for Sustainable Cities and Regions. Manchester, United Kingdom. 22nd-23rd November, 2018.
15. Pietrantoni, L., **Fraboni, F.** (2018, October). *Cycling Safety in EU-funded Projects: The XCYCLE Project main results and impact*. Oral presentation at the 7th International Cycling Safety Conference. Barcelona, Spain. 10th-11th October, 2018.
16. **Fraboni, F.**, Prati, G., Plesnik, D., De Angelis, M., Pietrantoni, L., Depolo, M., Johnson, D. H., Shires, J. (2018, October). *Psychosocial factors associated with bicycle crashes involvement and severity: a European study*. Oral presentation at the 7th International Cycling Safety Conference. Barcelona, Spain. 10th-11th October, 2018.
17. **Fraboni, F.**, De Angelis, M., Plesnik, D., Altini, A., Depolo, M., Zani, B., Prati, G & Pietrantoni, L. (2018, July). *Human-Automation Interaction in Automated Vehicles: An Innovative HMI Design Approach. The Case of Elderly and Cyclists*. Poster presented at the 20th International Conference on Human-Computer Interaction, HCI International 2018, Las Vegas, 15th – 20th July 2018.
18. DeAngelis, M., Prati, G., Marín Puchades, V., **Fraboni, F.**, & Pietrantoni, L., (2016, October). *Contributing Factors to Bicycle-Motorized Vehicle Collisions: A Systematic Literature Review*. Presentation at the fifth International Cycling Safety Conference, Bologna, Italy.
19. DeAngelis, M., Marín Puchades, V., **Fraboni, F.**, Pietrantoni, L., & Prati, G. (2016, September). *Negative Attitudes Towards Cyclists and Acceptance of New ADAS*. Presentation at the 2016 Annual Meeting of the Human Factors and Ergonomics Society – Europe Chapter, Prague, CR.
20. **Fraboni, F.**, Marín Puchades, V., DeAngelis, M., Pietrantoni, L., & Prati, G., (2016, September). *Cyclists' Traffic Light HMI and Red-Light Behaviour: An Observational Study in Italy*. Poster session at the 2016 Annual Meeting of the Human Factors and Ergonomics Society – Europe Chapter, Prague, CR.
21. Marín Puchades, V., DeAngelis, M., **Fraboni, F.**, Pietrantoni, L., & Prati, G., (2016, September). *Cyclists' Acceptance of Technologies Aimed to Improve Safety: A Decision Tree Analysis*. Poster session at the 2016 Annual Meeting of the Human Factors and Ergonomics Society – Europe Chapter, Prague, CR.

PRESENTATIONS AT NATIONAL CONFERENCES

1. **Fraboni, F.**, Gualtieri, F., De Marchi, M., Pietrantoni, L. & Rauch, E. (2021, September). *Migliorare le esperienze di lavoro nell'ambito della robotica collaborativa: uno studio sperimentale*. Oral presentation at XVIII Congresso Nazionale della Sezione di Psicologia per le Organizzazioni, Associazione Italiana di Psicologia, Verona, 23rd – 25th September, 2021
2. **Fraboni, F.**, Paolucci, A., Guglielmi, D., Mariani, M.G., Cozzani, V., Pietrantoni, L. (2021, September). *Sicurezza lavorativa in industrie ad alto rischio: lo sviluppo di un modello per valutare barriere psicosociali e probabilità di errore umano*. Oral presentation at XVIII Congresso Nazionale della Sezione di Psicologia per le Organizzazioni, Associazione Italiana di Psicologia, Verona, 23rd – 25th September, 2021
3. **Fraboni, F.** (2019, October). *Un Sistema di Benchmarking per Robot ed Esoscheletri in Europa: Il Progetto Eurobench*. Oral presentation at Seminario su “Ergonomia e Impresa 4.0”, Ambiente Lavoro 2019, Bologna, 15th- 16th October, 2019
4. Giusino, D., **Fraboni, F.**, De Angelis, M., Pietrantoni, L. (2019, September). *Sfide per l'adozione e l'utilizzo dei big data in psicologia del lavoro e delle organizzazioni*. Oral presentation at the 17th National Congress for Organizational Psychology, Italian Psychology Association. Lecce, Italy. 26-28 September, 2019.
5. Pietrantoni, L., Rainieri, G., **Fraboni, F.**, Tušl, M., Giusino, D., De Angelis, M., Tria, A. (2019, September). *Usability of exosystems: A review*. Poster presentation at the 13th Biannual Conference of the Italian SIGCHI Chapter. Padova, Italy. 23rd-25th September, 2019.

6. Prati, G., **Fraboni, F.**, Plesnik, D., Altini, A., De Angelis, M., & Pietrantoni, L. (2018, June). *Gender equality index e trasporto quotidiano: un legame tra diseguaglianze e uso della bicicletta nei paesi europei*. Relazione orale presentata al XII Convegno Nazionale SIPCO tenutosi a Palermo, 7/9 giugno 2018.

PRESENTATIONS AS INVITED SPEAKERS

1. **Fraboni, F.** (2021, July). *Human Factors and Cognitive Ergonomics in Industrial HRC: Challenges and Opportunities*. Oral Presentation at the First Asia Pacific International Conference on Industrial Engineering and Operations Management, July 9th, 2021, Harbin, China.
2. **Fraboni, F.** (2020, June). *L'Intelligenza Artificiale per migliorare ed incrementare le capacità umane: contesti lavorativi e sociali*. Oral Presentation at the virtual conference Intelligenza Artificiale e Business Application: Web Conference Edition organized by SOIEL INTERNATIONAL. June 25th, 2020, Online.
3. **Fraboni, F.** (2020, January). *Ergonomia Cognitiva nella collaborazione human-robot e human-automation*. Oral presentation at the Workshop on Safety and Ergonomics for Industrial Collaborative Workspaces, Smart Mini Factory – Laboratory for Industry 4.0, Free University of Bozen-Bolzano, January 31st, 2020, Bolzano, Italy.
4. **Fraboni, F.** (2019, November). *Interagire con l'Intelligenza Artificiale: la Ricerca Scientifica, le Implicazioni per il Design e lo Sviluppo di Nuovi Sistemi*. Oral Presentation at the conference Intelligenza Artificiale e Business Application: Le forme dell'Intelligenza Artificiale applicata al Business organized by SOIEL INTERNATIONAL. November 27th, 2019, Milan, Italy
5. **Fraboni, F.** (2019, October). *Human-Robot Collaboration on the Shop Floor: from Research to Industrial Application*. Oral presentation at Conferenza Italiana di Robotica e Macchine Intelligenti, Istituto di Robotica e Macchine Intelligenti (I-RIM), October 18th-20th, 2019, Rome, Italy.
6. **Fraboni, F.** (2019, April). *Interactions between Connected Automated Driving and Users*. Panel session at the 2nd European Conference on Connected and Automated Driving, April 2nd-3rd, 2019
7. **Fraboni, F.**, De Angelis, M., Pietrantoni, L. (2018, September). *Assisting human operators in the Industry 4.0: Human Factors challenges*. Relazione orale presentata during the Full-day Workshop: Assisting Human Operators in the Industry 4.0: Challenges and Perspectives. IEEE 23rd International Conference on Emerging Technologies and Factory Automation, September 4th - 7th, 2018, Torino, Italy

AWARDS

Best Paper Award at the ICSC 2016 5th International Cycling Safety Conference with the paper *Red-light running behaviors of cyclists in Italy: an Observational Study*.

PARTICIPATION IN INTERNATIONAL RESEARCH PROJECTS

XSPINE Project - Funded under project EUROBENCH FSTP-2 call, H2020; Grant agreement ID: 779963. Coordinator: dr. Loris Roveda, IDSIA-SUPSI. **Role and Activities:** member of the project partner team of the University of Bologna; testing, validating, and benchmarking the design of two back support exoskeleton prototype in terms of human factors and ergonomics.

STEPbySTEP Project – “*Systematic Test of Exoskeleton Products by a Stairs-based Testbed Evaluation Protocol*”. Funded under project EUROBENCH FSTP-1 call, H2020; Grant agreement ID: 779963. Coordinator: dr. Loris Roveda, IDSIA-SUPSI. **Role and Activities:** member of the project partner team of the University of Bologna; design of a human-factors benchmarking protocol; contribution to writing and reviewing project documents; participation to project meeting and conferences related to the project.

XCYCLE Project - “*Advanced measures to reduce cyclists' fatalities and increase comfort in the interaction with motorised vehicles*”. Funded under H2020-EU.3.4; Grant agreement ID: 635975. Coordinator: prof. Luca Pietrantoni, Alma Mater Studiorum - University of Bologna. **Role and Activities:** member of the project coordinating team of the University of Bologna; design and implementation of research activities on psychosocial factors associated to cycling safety, and on the impact of technological innovations on cycling

safety; participation to writing and reviewing project deliverables; organisation and participation to project monthly meetings, consortium meetings, project workshops, events and seminars.

ARCADE Project – “*Aligning Research & Innovation for Connected and Automated Driving in Europe*”. Coordination and Support Action funded by the European Commission’s Horizon 2020 programme. Coordinator: European Road Transport Telematics Implementation Coordination Organisation - Intelligent Transport Systems & Services Europe. **Role and Activities:** member of the associate partner team of the University of Bologna; contribution to writing and reviewing project documents such as white papers and research agendas; participation and presentation to events, webinars and conferences related to the project.

SOCIETY NEXT Project – “*European Researchers Night*” funded by the European Commission under Sklodowska-Curie actions, Grant agreement ID. 954949. Coordinator: Consorzio Interuniversitario CINECA – Dipartimento di Supercalcolo. **Role and Activities:** member of the project partner team of the University of Bologna; contribution to activities aimed at assessing the impact of project initiatives.

nUCLEON Project – “*User Centered visual Landing aids through Laser projEctiON*”. Funded by MAECI under the Italy-Israel R&D Cooperation Program. Prot: MAE01060522018-06-14. Coordinator: dr. Daniele Bertin, Calzoni L3 Harris. **Role and Activities:** member of the project partner team of the University of Bologna; design and implementation of research activities on human factors in military helicopter pilots, and on interface designs; participation to writing and reviewing project deliverables; organisation and participation to project monthly meetings and consortium meetings.

ESTABLISHED COLLABORATIONS

with the following companies, universities, and research centres:

IDSIA-SUPSI; CNR – ITIA; Centro Ricerche Fiat; Eni; Calzoni L3 Harris; Free University of Bolzano; University of Leeds; Marina Militare; University of Groningen; DLR German Aerospace Center.

IT SOFTWARES AND SKILLS

Data Analysis Software: SPSS v20-25; M-PLUS; AMOS; Pupil-LAB software suite.

Advanced Data Analysis Techniques: Association rule mining; Decision Tree Classification; Cluster Analysis; Latent class analysis.

Data Visualization Software: Tableau; Microsoft Excel.

Writing and Editing: Microsoft Office 365 Suite; Gimp; Audacity; DaVinci Resolve.

Cloud Solutions: OneDrive, Google Drive, Dropbox.

Social media: Research Gate, LinkedIn, Reddit

LANGUAGES

	Comprehension		Speaking		Writing
	Listening	Reading	Conversation	Public Speaking	Formal and scientific texts
English	Excellent	Excellent	Excellent	Excellent	Excellent
Spanish	Good	Good	Good	Good	Poor

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all’art. 13 del D. Lgs. 196/2003 e all’art. 13 del Regolamento UE 2016/679 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali. Consapevole che chiunque rilascia dichiarazioni mendaci è punito ai sensi del codice penale e delle leggi speciali in materia, ai sensi e per gli effetti dell’art. 46 D.P.R. n. 445/2000

Date: 4/1/2022