

MATTEO BERTUCCO

Curriculum Vitae

Department of Neuroscience, Biomedicine and Movement Sciences

University of Verona

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Education

- Ph.D. University of Verona, Italy
Physical Exercise and Human Movement Sciences, 2010
- M.S. University of Verona, Italy
Preventative and Adapted Motor Activity Sciences, 2006
- B.S. University of Verona, Italy
Human Movement and Sport Sciences, 2003

Present position

2017-present
Assistant Professor University of Verona

Appointments

- 2018 (February– May)
Visiting Professor Northwestern University and AbilityLab
- 2017 (March – May)
Visiting Professor University of Harford
- 2016
Assistant Professor University of Harford
- 2010 - 2016
Postdoctoral Research Associate University of Southern California

Current Areas of Research

Motor control, motor learning, biomechanics, postural control, locomotion, neurorehabilitation, pediatric movement science, movement disorders.

Grants, Awards, Scholarships

2018

1. Create Cures Foundation. €6000

2017

2. CooperInt outgoing visiting funding by the University of Verona. \$ 4400.

2016

3. Emerging Researcher Travel Award. ISAAC Conference 2016.

2015

4. USC Postdoc Association travel award.

2014

5. California Community Foundation. “The effects of augmented sensory feedback through electromyogram-based devices to improve selective motor control during gait in children with cerebral palsy”. \$50000. Co-Principal Investigator.
6. Southern California Clinical and Translational Science Institute. “Augmented sensory feedback to improve selective motor control during gait in children with cerebral palsy”. Research Pilot Funding Award. \$27000. Co-Principal Investigator.
7. ISSNAF Awards 2014. Finalist selected.

2013

8. USC Postdoc Association travel award.

2008

9. Research Visiting Scholar Sponsor Funds. Pennsylvania State University. \$2917
10. Young Researchers Award for Poster Presentation”. 5th Scientific Conference on Kinesiology in Zagreb, Croatia, September 10th- 14th, 2008.

2007

11. Scholarship “CooperInt Ateneo 2007” for Junior Researchers Mobility by the University of Verona. \$ 7400.

2005

12. Erasmus project scholarship, University of Verona, Italy. \$2000.

Collaborations

- Terence D. Sanger, University of Southern California
- Mark L. Latash, Pennsylvania State University
- Alessandra Adami, University of Rhode Island
- Paola Cesari, University of Verona

- Sudarshan Dayanidhi, Northwestern University
- Valter Longo, University of Southern California
- Mary Gannotti, University of Hartford
- Massimo Venturelli, University of Verona
- Andrea D'Avella, University of Messina
- Chiara Milanese, University of Verona
- Tishya Wren, University of Southern California

Invited Seminars

1. Department of Kinesiology, University of Rhode Island, March 5th, 2018.
2. Rehabilitation Institute of Chicago (RIC), Chicago, USA, May 16th, 2016.
3. Center for Mind/Brain Sciences (CIMEC), University of Trento, Trento, Italy. July 29th, 2015.
4. Department of Exercise Science, University of South Carolina, Columbia, SC, USA, April 17th, 2015.
5. Physical Therapy Program, School of Medicine, Washington University in St. Louis, St. Louis, MO, USA, February 24th, 2015.
6. School of Biological and Health Systems Engineering, Arizona State University, Tempe, AZ, USA, February 16th, 2015.
7. Department of Kinesiology and Community Health, University of Illinois at Urbana-Champaign, Urbana-Champaign, IL, USA, January 22nd, 2015.
8. Children's Hospital of Los Angeles, Los Angeles, CA, USA, August 26th, 2014.
9. Department of Kinesiology, Michigan State University, East Lansing, USA, January 15th, 2014.
10. Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona, Italy, June 5th, 2013.
11. Department of Neurosciences, Biomedicine and Movement Sciences, Italy, May 15th, 2012.
12. Division of Biokinesiology and Physical Therapy, University of Southern California, Los Angeles, USA, February 18th, 2011.
13. Faculties of Human Movement and Sport Sciences & Medicine and Surgery, University of Verona, Italy, March 6th, 2010.
14. Rehabilitation Institute of Chicago (RIC), Chicago, USA, February 13th, 2010.

Mobile Application Softwares

1. Mobile apps on iOS "Bubbles-Burst"
<https://itunes.apple.com/us/app/bubbles-burst/id619306102?mt=8>
2. Mobile apps on iOS "Play List SL"
<https://itunes.apple.com/us/app/play-list-sl/id593929437?mt=8>

Reviewer:

- Frontiers in Human Neuroscience
- Gait and Posture
- Human Movement Science
- Journal of Child Neurology
- Journal of Sports Sciences
- Journal of Neurophysiology

Publications

Peer-Reviewed Journal Papers

1. Borish CN, **Bertuccio M**, Berger DJ, D’Avella A, Sanger TD. Spatial Filtering Fails to Separate Voluntary and Involuntary Components in Children with Cerebral Palsy. *In preparation*.
3. Borish CN, **Bertuccio M**, Sanger TD. Speed-Accuracy Tradeoff to Assess Myocontrol Controllability for Different Activation Ranges. *Under review*.
4. **Bertuccio M**, Sanger TD. A model to estimate the optimal layout for assistive communication touchscreen devices in children with dyskinetic cerebral palsy. *IEEE Trans Neural Syst Rehabil Eng*. 2018; 26(7):1371-1380.
5. Borish CN, Feinman A, **Bertuccio M**, Ramsy NG, Sanger TD. Comparison of speed-accuracy tradeoff between linear and non-linear filtering algorithms for myocontrol. *J Neurophysiol*. 2018; 119(6): 2030-2035.
6. Fournier S, Veneri D, **Bertuccio M**, Gannotti M. Using the ICF model to gain perspective of the benefits of yoga in stroke, MS and children to inform practice for children with CP: A meta-analysis”. *J Alternat Compl Med*. 2018; 24(5): 439:457.
7. Lunardini F, Casellato C, **Bertuccio M**, Sanger TD, and Pedrocchi A. Upper limb muscle synergies in children with dystonia capture “healthy” patterns of activity during writing tasks. *Ann Biomed Eng*. 2017; 45(8):1949-1962.
8. Liyanagamage SA, **Bertuccio M**, Bhanpuri NH, Sanger TD. Scaled vibratory feedback can bias muscle use in children with dystonia without changing overall performance in a redundant one-dimensional myocontrol task. *J Child Neurol*. 2017;32:161-169
9. Lunardini F, Casellato C, **Bertuccio M**, Sanger TD, Pedrocchi A. Muscle synergies in children with dystonia capture healthy patterns regardless the altered motor performance. *Conf Proc IEEE Eng Med Biol Soc 2015*. 2015; 2099-2102.
10. **Bertuccio M**, Bhanpuri NH, Sanger TD. Perceived Cost and Intrinsic Motor Variability Modulate the Speed-Accuracy Trade-Off. *PLoS One*. 2015;10(10): e0139988.
11. Lunardini F, Maggioni S, Casellato C, **Bertuccio M**, Pedrocchi A, Sanger TD. Increased task-irrelevant components of muscle activity in childhood dystonia. *J Neuroeng Rehabil*. 2015; 12: 52.

12. Lunardini F, **Bertucco M**, Casellato C, Bhanpuri NH, Pedrocchi A, Sanger TD. Speed-accuracy trade-off in a trajectory-constrained self-feeding task: a quantitative index of unsuppressed motor noise in children with dystonia. *J Child Neurol*. 2015;30(12):1676-85.
13. Dunning A, Ghoreyshi A, **Bertucco M**, Sanger TD. The Tuning of Human Motor Response to Risk in a Dynamic Environment Task. *PLoS One*. 2015;10(4):e0125461.
14. Bhanpuri NH, **Bertucco M**, Young SJ, Lee A, Sanger TD. Multiday transcranial direct current stimulation causes clinically insignificant changes in childhood dystonia: A pilot study. *J Child Neurol*. 2015; 30(12): 1604-15.
15. **Bertucco M**, Sanger TD. Current and emerging strategies for childhood dystonia. *Journal of Hand Therapy*. 2015; 28(2):185-93.
16. **Bertucco M**, Dayanidhi S. Can the period of postnatal co-development of the rubrospinal and corticospinal systems provide new insights into refinement of limb movement? *J Neurophysiol*. 2015; 113: 681–683.
17. Bhanpuri NH*, **Bertucco M***, Ferman D, Young SJ, Liker MA, Krieger MD, Sanger TD. Deep brain stimulation evoked potentials may relate to clinical benefit in childhood dystonia. *Brain Stimulation*. *Equal contribution. *Brain Stimul*. 2014; 7(5): 718-726.
18. Milanese C, **Bertucco M**, Zancanaro C. The effects of three different rear knee angles on kinematics and kinetics in sprint start. *Biology of Sport*. 2014; 31: 209-215.
19. Casellato C, Maggioni S, Lunardini F, **Bertucco M**, Pedrocchi A, Sanger TD. Dystonia: Altered Sensorimotor Control and Vibro-tactile EMG-Based Biofeedback Effects. XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013. *IFMBE Proceedings*. 2014; 41: 1742-1746.
20. Young SJ, **Bertucco M**, Sanger TD. Cathodal transcranial direct current stimulation in children with dystonia: a sham-controlled study. *J Child Neurol*. 2014; 29(2): 232-239.
21. **Bertucco M**, Sanger TD. Speed-accuracy testing on the Apple iPad® provides a quantitative test of upper extremity motor performance in children with dystonia. *J Child Neurol*. 2014; 29:1460-1466.
22. **Bertucco M**, Cesari P, Latash ML. Fitts' Law in early postural adjustments. *Neuroscience*. 2013; 213: 61-69.
23. Young SJ, **Bertucco M**, Sheehan-Stross R, Sanger TD. Cathodal transcranial direct current stimulation in children with dystonia: a pilot open-label trial. *J Child Neurol*. 2013; 28(10): 1238-1234.
24. **Bertucco M**, Cesari P. Does movement planning follow Fitts' law? Scaling anticipatory postural adjustments with movement speed and accuracy. *Neuroscience*. 2010; 171(1): 205-213.
25. Milanese C, Bortolami O, **Bertucco M**, Verlato G, Zancanaro C. Anthropometry and motor fitness in children aged 6-12 years. *Journal of Human Sport and Exercise*. 2010; 5(2) 265-279.
26. **Bertucco M**, Cesari P. Dimensional analysis and ground reaction forces for stair climbing: effects of age and task difficulty. *Gait and Posture*. 2009; 29(2): 326-331.

27. Cesari P, **Bertuccio M**. Coupling between punch efficacy and body stability for elite karate. *Journal of Science and Medicine in Sport*. 2008; 11(3): 353-356.

Abstracts at conferences

1. **Bertuccio M**, Sandhu S, Mueske N, Wren TAL, Sanger TD. Prolonged EMG-based biofeedback induces changes in selective voluntary motor control during gait in children with cerebral palsy. 2016 Annual Conference Gait Clinical Movement Analysis Society. Memphis, TN, USA, May 17th - 20th, 2016. *Oral Presentation*.
2. **Bertuccio M**, Lunardini F, Sandhu S, Casellato C, Maggioni S, Mueske N, Pedrocchi A, Wren TAL, Sanger TD. EMG-based augmented sensory feedback causes motor pattern changes in children with movement disorders. 26th Annual Meeting, Neural Control of Movement Society. Montego Bay, Jamaica, April 24th - 29th, 2016. *Poster Presentation*.
3. Liyanagamage SA, **Bertuccio M**, Sanger TD. Task-congruent visualizations increase muscle awareness in subjects with dystonia during a one-dimensional myocontrol task. 26th Annual Meeting, Neural Control of Movement Society. Montego Bay, Jamaica, April 24th - 29th, 2016. *Poster Presentation*.
4. Liyanagamage SA, **Bertuccio M**, Sanger TD. Visualization of Task Dynamics Can Change Muscle Patterns on a One-Dimensional Myocontrol Task. Annual Meeting, Society for Neuroscience. Chicago, IL, USA, October 17th-21st, 2015. *Poster Presentation*.
5. Arguelles-Morales E, Bhanpuri NH, **Bertuccio M**, Ferman D, Sanger TD. Long-term effects in cortical evoked potentials in response to combined GPi and VL DBS in children with dystonia. Annual Meeting, Society for Neuroscience. Chicago, IL, USA, October 17th-21st, 2015. *Poster Presentation*.
6. Liyanagamage SA, **Bertuccio M**, Bhanpuri NH, Sanger TD. The effects of vibratory feedback on muscle use in dystonia. Annual Meeting, Biomedical Engineering Society. Tampa, FL, USA, October 7th-10th, 2015. *Oral Presentation*.
7. **Bertuccio M**, Dunning A, Sanger TD. Tuning of postural responses to instability and cost function. Progress in Motor Control X. Budapest, Hungary, July 22nd - 25th, 2015. *Poster Presentation*.
8. Borish CN, **Bertuccio M**, Denise J. Berger DJ, d'Avella A, Sanger TD. Using non-negative matrix factorization as a filter to improve usability of myocontrol for children with cerebral palsy. Progress in Motor Control X. Budapest, Hungary, July 22nd - 25th, 2015. *Oral Presentation*.
9. **Bertuccio M**, Dunning A, Sanger TD. Tuning of postural responses to instability and cost function. ISPGR World Congress. Seville, Spain, June 28th - July 2nd, 2015. *Poster Presentation*.
10. **Bertuccio M**, Dunning A, Sanger TD. Tuning of standing posture to instability and cost function. 25th Annual Meeting, Neural Control of Movement Society. Charleston, SC, USA, April 20nd-24th, 2015. *Poster Presentation*.

11. Dunning A, **Bertucco M**, Sanger TD. The tuning of reflexes to environmental risk. 25th Annual Meeting, Neural Control of Movement Society. Charleston, SC, USA, April 20nd-24th, 2015. *Poster Presentation*.
12. **Bertucco M**, Borish CN, Sanger TD. Abnormal motor patterns during accuracy-constrained reaching movements in children with secondary dystonia. Annual Meeting, Society for Neuroscience. Washington, DC, USA, November 15th-19th, 2014. *Poster Presentation*.
13. Borish CN, **Bertucco M**, Berger DJ, d'Avella A, Sanger TD. Using Non-Negative Matrix Factorization as a Filter to Improve Usability of Myocontrol. Annual Meeting, Society for Neuroscience. Washington, DC, USA, November 15th-19th, 2014. *Poster Presentation*.
14. Feinman A, **Bertucco M**, Bhanpuri NH, Sanger TD. Bayesian filtering of surface electromyography as a human-computer interface. Annual Meeting, Society for Neuroscience. Washington, DC, USA, November 15th-19th, 2014. *Poster Presentation*.
15. Liyanagamage SA, **Bertucco M**, Bhanpuri NH, Sanger TD. Mode of vibration biases muscle use in children with dystonia during redundant, one-dimensional myocontrol task. Annual Meeting, Society for Neuroscience. Washington, DC, USA, November 15th-19th, 2014. *Poster Presentation*.
16. Nguyen C, **Bertucco M**, Berger DJ, d'Avella A, Sanger TD. Using Non-Negative Matrix Factorization as a Filter to Improve Usability of Myocontrol. 24th Annual Meeting, Neural Control of Movement Society. Amsterdam, The Netherlands, April 22nd-26th, 2014. *Poster Presentation*.
17. Dunning A, **Bertucco M**, Ghoreyshi A, Sanger TD. The Tuning of Perturbation Response to Risk in a Dynamic Environment Task. 24th Annual Meeting, Neural Control of Movement Society. Amsterdam, The Netherlands, April 22nd-26th, 2014. *Poster Presentation*.
18. Bhanpuri NH, **Bertucco M**, Nishida JC, Ferman D, Sanger TD. Cortical Responses to Deep Brain Stimulation in Childhood Dystonia Reveal Abnormal Oscillations and Stimulation Induced Plasticity. 24th Annual Meeting, Neural Control of Movement Society. Amsterdam, The Netherlands, April 22nd-26th, 2014. *Poster Presentation*.
19. Liyanagamage SA, **Bertucco M**, Bhanpuri NH, Sanger TD. Preferential use of muscle after vibratory feedback during redundant, one-dimensional myocontrol task. 24th Annual Meeting, Neural Control of Movement Society. Amsterdam, The Netherlands, April 22nd-26th, 2014. *Poster Presentation*.
20. Arguelles-Morales E, Bhanpuri NH, **Bertucco M**, Sanger TD. Effects of different perturbation duration on the long-latency stretch response. 24th Annual Meeting, Neural Control of Movement Society. Amsterdam, The Netherlands, April 22nd-26th, 2014. *Poster Presentation*.
21. Lunardini F, Casellato C, Berger DJ, **Bertucco M**, d'Avella A, Sanger TD, Pedrocchi A. Multi-muscle synergy-based control of multiple degrees of freedom of a robotic device. 24th Annual Meeting, Neural Control of Movement Society. Amsterdam, The Netherlands, April 22nd-26th, 2014. *Poster Presentation*.

22. Nguyen C, Reyes A, **Bertuccio M**, Sanger TD. Bayesian estimation of kinetics and kinematics. Annual Meeting, Society for Neuroscience. San Diego, CA, USA, November 9th-13th, 2013. *Poster Presentation*.
23. Bhanpuri N, **Bertuccio M**, Nishida JC, Ferman D, Sanger TD. Frequency of deep brain stimulation systematically affects cortical responses in childhood dystonia. Annual Meeting, Society for Neuroscience. San Diego, CA, USA, November 9th-13th, 2013. *Poster Presentation*.
24. Lunardini F, **Bertuccio M**, Bhanpuri N, Casellato C, Pedrocchi A, Sternard D, Sanger TD. The spoon task: a trajectory-constrained speed-accuracy trade-off task in children with dystonia. Annual Meeting, Society for Neuroscience. San Diego, CA, USA, November 9th-13th, 2013. *Poster Presentation*.
25. **Bertuccio M**, Sanger TD. A Model to Estimate the Channel Capacity Using Assistive Communication Devices in Children with Cerebral Palsy. The 6th International IEEE EMBS Neural Engineering Conference. San Diego, CA, USA, November 6th – 8th, 2013. *Poster Presentation*.
26. Bhanpuri N, **Bertuccio M**, Nishida JC, Ferman D, Sanger TD. Characterizing Oscillations in Childhood Dystonia Using Deep Brain Stimulation Evoked Potentials. The 6th International IEEE EMBS Neural Engineering Conference. San Diego, CA, USA, November 6th – 8th, 2013. *Poster Presentation*.
27. **Bertuccio M**, Singh R, Sanger TD. A model to estimate the channel capacity in pointing movement using assistive communication devices in children with cerebral palsy. 23rd Annual Meeting, Neural Control of Movement Society. San Juan, Puerto Rico, April 16th-20th, 2013. *Poster Presentation*.
28. Dunning A, **Bertuccio M**, Ghoreyshi A, Sanger TD. The Tuning of Human Motor Response to Uncertainty and Risk in a Dynamic Environment Task. 23rd Annual Meeting, Neural Control of Movement Society. San Juan, Puerto Rico, April 16th-20th, 2013. *Poster Presentation*.
29. Bhanpuri N, **Bertuccio M**, Ferman D, Young SJ, Sanger TD. Evoked potentials from deep brain stimulation in childhood dystonia. 23rd Annual Meeting, Neural Control of Movement Society. San Juan, Puerto Rico, April 16th-20th, 2013. *Poster Presentation*.
30. Nguyen C, Feinman A, **Bertuccio M**, Sanger TD. Fitts' Law relationships of single-muscle myocontrol with Bayesian-filtered surface EMG in healthy adults and children with dystonia. 23rd Annual Meeting, Neural Control of Movement Society. San Juan, Puerto Rico, April 16th-20th, 2013. *Poster Presentation*.
31. Lunardini F, Bhanpuri N, **Bertuccio M**, Casellato C, Pedrocchi A, Sternad D, Sanger TD. Poor motor performance and motor learning in childhood dystonia: speed-accuracy and movement variability in complex daily-life activities. 23rd Annual Meeting, Neural Control of Movement Society. San Juan, Puerto Rico, April 16th-20th, 2013. *Poster Presentation*.
32. **Bertuccio M**, Nguyen C, Chu A, Sanger TD. The muscle patterns of upper arm during reaching task in children with dystonia. Annual Meeting, Society for Neuroscience. New Orleans, LA, USA, October 13th-17th, 2012. *Poster Presentation*.

33. Sanger TD, Young SJ, **Bertucco M**. Transcranial direct-current stimulation in childhood dystonia: Results of an open-label pilot trial. The Movement Disorder Society's 16th International Congress of Parkinson's Disease and Movement Disorders. Dublin, Ireland, June 17th- 21th, 2012. *Poster Presentation*.
34. **Bertucco M**, Chu A, Sanger TD. Kinematics analysis of constrained reaching movements in children with dystonia. 22st Annual Meeting, Neural Control of Movement Society. Venice, Italy, April 23th-29th, 2012. *Poster Presentation*.
35. Young SJ, **Bertucco M**, Sanger TD. Sham-controlled study of transcranial direct current stimulation (TDCS) for dystonia in children. 22st Annual Meeting, Neural Control of Movement Society. Venice, Italy, April 23th-29th, 2012. *Poster Presentation*.
36. Lunardini F, Maggioni S, Casellato C, **Bertucco M**, Pedrocchi A, Sanger TD. Vibro-Tactile Biofeedback for Neuromuscular Rehabilitation in Children with Dystonia. 22st Annual Meeting, Neural Control of Movement Society. Venice, Italy, April 23th-29th, 2012. *Poster Presentation*.
37. **Bertucco M**, Sanger TD. The effects of the perceived cost function on the speed-accuracy trade-off between healthy children and children with dystonia. Annual Meeting, Society for Neuroscience. Washington D.C., USA, November 12th-16th, 2011. *Poster Presentation*.
38. Young SJ, **Bertucco M**, Sheehan-Stross R, Sanger TD. Transcranial direct current stimulation (TDCS) for dystonia in children. Annual Meeting, Society for Neuroscience. Washington D.C., USA, November 12th-16th, 2011. *Poster Presentation*.
39. **Bertucco M**, Sanger TD. The cost function effects on the speed-accuracy trade-off in childhood dystonia using the iPad[®]. 21st Annual Meeting, Neural Control of Movement Society. San Juan, Puerto Rico, April 26th-30th, 2011. *Poster Presentation*.
40. **Bertucco M**, Cesari P, Latash ML. Fitts' law in anticipatory postural adjustments. Progress in Motor Control VII. Marseille, France, July 23th-25th, 2009. *Poster Presentation*.
41. **Bertucco M**, Cesari P. The speed-accuracy trade-off effects on the gait initiation planning. Progress in Motor Control VII. Marseille, France, July 23th-25th, 2009. *Poster Presentation*.
42. **Bertucco M**, Cesari P. The speed-accuracy trade-off effects on the gait initiation planning. 19th International Society for Posture & Gait Research Conference. Bologna, Italy, June 21th-25th, 2009. *Poster Presentation*.
43. Milanese C, **Bertucco M**, Ferrari G, Zancanaro C. Kinematic analysis of three different sprint start positions in novice athletes. 14th European College Sport Science Conference. Oslo, Norway, June 24th-27th, 2009. *Poster Presentation*.
44. **Bertucco M**, Cesari P. The Fitts' law and the anticipatory postural adjustment. 5th International Scientific Conference on Kinesiology. Zagreb, Croatia, September 10th-14th, 2008. *Poster Presentation*.
45. Cesari P, John J, Cusumano JP, **Bertucco M**. Body-Goal variability analysis of performance, with application to an aiming task. Progress in Motor Control VI. Sao Paulo, Brazil, August 9th - 12th, 2007. *Poster Presentation*.
46. **Bertucco M**, Cesari P. Coupling between punch efficacy and body stability for elite karate. 9th Sport kinetics IASK in Rimini, Italy, September 16th - 18th, 2005. *Poster Presentation*.

47. **Bertuccio M**, Cesari P. Coupling between punch efficacy and body stability for elite karate. 8th European Workshop on Ecological Psychology in Verona, Italy, June 26th - 29th, 2004. *Poster Presentation.*

Affiliations to Scientific Societies

- Gait and Clinical Movement Analysis Society
- Society of Neuroscience
- Society for the Neural Control of Movement
- International Society of Motor Control
- International Society for Posture and Gait Research
- International Society of Biomechanics

Technical Devices

- Motion Capture: Vicon, Qualysis, Motion Analysis, Flock-of-Birds
- EMG: Delsys, Biometrics, Aurion
- Force Plate: Kistler, AMTI
- TMS: Magstim
- TDCS: Magstim

Software Programming and Computer Skills

- Analysis and Statistics: Matlab, R, SPSS, SigmaPlot, SigmaStat, DataGraph.
- Programming: Objective C, C++, Python (basic)
- Text and Office Software: MS Office, iWork
- Operating Systems: Mac OSX, Windows

Languages

- English
- Italian
- Veronese dialect

Licenses

2007

1. Karate instructor, black belt 5th Dan, FESIK (Italian Federation of Sportive Karate)

2001

2. Swimming coach 2nd level, FIN (Italian Federation of Swimming)

1999

3. Certificate of Military Parachutist, Italian Army

Interests and Activities

- Sports: Karate, Boxing Cycling, Running, Table Tennis
- Wilderness: Hiking, Climbing
- Culture: Concerts, Museums, Movies, Reading, Food, Wine and Beer Tasting.

Military service

- 1st Regiment Carabinieri "Tuscania"

Principal Karate Competitive Awards

2009

1. 1st place, World Championships 2009 WUKO, Guadalajara, Mexico Individual competition.
2. 1st place, World Championships 2009 WUKO, Guadalajara, Mexico Team competition.

2007

3. 1st place, World Championships 2007 WUKO, Valencia, Spain Team competition.

2006

4. 1st place, European Championships 2006 WUKO, St. Polten, Austria Team competition.
5. 3rd place, European Championships 2006 WUKO, St. Polten, Austria Individual competition.

2005

6. 2nd place, World Championships 2005 WKC, Fortaleza, Brazil Individual competition.

Won more than 100 awards in International and National competitions.