

MATTEO BERTUCCO

Curriculum Vitae

Dipartimento di Neuroscienze, Biomedicina e Movimento

Università di Verona

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Studi

Dottorato di Ricerca (Ph.D.)

Università di Verona

Scienze dell'Esercizio Fisico e Movimento Umano, 2010

Laurea Magistrale

Università di Verona

Laurea Magistrale in Scienze Motorie Preventive ed Adattate, 2006

Laurea Triennale

Università di Verona

Laurea in Scienze delle Attività Motorie e Sportive, 2003

Posizione attuale

2017-presente

Ricercatore a tempo determinato Senior (tipo b) Università di Verona

Formazione Professionale e Scientifica

2018 (Febbraio – Maggio)

Professore in Visita Northwestern University e AbilityLab

2017 (Marzo – Maggio)

Professore in Visita University of Harford

2016

Assistant Professor University of Harford

2010 - 2016

Postdoctoral Research Associate University of Southern California

Aree di Ricerca

Controllo motorio, apprendimento motorio, biomeccanica, controllo posturale, locomozione, neuroriabilitazione, sviluppo motorio, disordini del movimento.

Finanziamenti, Premi e Borse di Studio

2017

1. Finanziamento Cooperint per mobilità in uscita Università di Verona. €3725

2016

2. Emerging Researcher Travel Award. ISAAC Conference 2016.

2015

3. USC Postdoc Association travel award.

2014

4. 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.
5. 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.
6. ISSNAF Awards 2014. Finalist selected.

2013

7. USC Postdoc Association travel award.

2008

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

2007

10. Borsa di Studio “CooperInt Ateneo 2007” per mobilità Junior Researchers by the Università di Verona. € 5000.

2005

11. Borsa di Studio Progetto Erasmus, Università di Verona. €1500.

Collaborazioni

- 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

Seminari

1. Department of Kinesiology, University of Rhode Island, March 5th, 2018.
2. Rehabilitation Institute of Chicago (RIC), Chicago, USA, 16 maggio 2016.
3. Center for Mind/Brain Sciences (CIMeC), Università di Trento, Italia, 29 luglio 2015.
4. Department of Exercise Science, University of South Carolina, Columbia, SC, USA, 17 aprile 2015.
5. Physical Therapy Program, School of Medicine, Washington University in St. Louis, St. Louis, MO, USA, 24 febbraio 2015.
6. School of Biological and Health Systems Engineering, Arizona State University, Tempe, AZ, USA, 16 febbraio 2015.
7. Department of Kinesiology and Community Health, University of Illinois at Urbana-Champaign, Urbana-Champaign, IL, USA, 22 gennaio, 2015.
8. Children's Hospital of Los Angeles, Los Angeles, CA, USA, 26 agosto, 2014.
9. Department of Kinesiology, Michigan State University, East Lansing, USA, 15 gennaio, 2014.
10. Dipartimento di Neuroscienze, Biomedicina e Movimento, Università di Verona, 5 giugno 2013.
11. Dipartimento di Neuroscienze, Biomedicina e Movimento, Università di Verona, 15 maggio 2012.
12. Division of Biokinesiology and Physical Therapy, University of Southern California, Los Angeles, USA, 18 febbraio, 2011.
13. Facoltà di Scienze Motorie e Facoltà di Medicina e Chirurgia, Università di Verona, 6 marzo, 2010.
14. Rehabilitation Institute of Chicago (RIC), Chicago, USA, 13 marzo 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>

Esperienza editoriale - Reviewer

- Frontiers in Human Neuroscience
- Gait and Posture
- Human Movement Science

- Journal of Child Neurology
- Journal of Sports Sciences
- Journal of Neurophysiology

Publicazioni

Peer-Reviewed Journal Papers

1. Borish CN, **Bertucco M**, Berger DJ, D'Avella A, Sanger TD. Spatial Filtering Fails to Separate Voluntary and Involuntary Components in Children with Cerebral Palsy. *In preparation*.
1. Borish CN, **Bertucco M**, Sanger TD. Speed-Accuracy Tradeoff to Assess Myocontrol Controllability for Different Activation Ranges. *Under review*.
2. **Bertucco 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.
3. Borish CN, Feinman A, **Bertucco 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.
4. Fournier S, Veneri D, **Bertucco 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.
5. Lunardini F, Casellato C, **Bertucco 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.
6. Liyanagamage SA, **Bertucco 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
7. Lunardini F, Casellato C, **Bertucco 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.
8. **Bertucco M**, Bhanpuri NH, Sanger TD. Perceived Cost and Intrinsic Motor Variability Modulate the Speed-Accuracy Trade-Off. *PLoS One*. 2015;10(10): e0139988.
9. Lunardini F, Maggioni S, Casellato C, **Bertucco M**, Pedrocchi A, Sanger TD. Increased task-irrelevant components of muscle activity in childhood dystonia. *J Neuroeng Rehabil*. 2015; 12: 52.
10. 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.
11. 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.

12. Bhanpuri NH, **Bertuccio 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.
13. **Bertuccio M**, Sanger TD. Current and emerging strategies for childhood dystonia. *Journal of Hand Therapy*. 2015; 28(2):185-93.
14. **Bertuccio 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.
15. Bhanpuri NH*, **Bertuccio 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.
16. Milanese C, **Bertuccio 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.
17. Casellato C, Maggioni S, Lunardini F, **Bertuccio 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.
18. Young SJ, **Bertuccio M**, Sanger TD. Cathodal transcranial direct current stimulation in children with dystonia: a sham-controlled study. *J Child Neurol*. 2014; 29(2): 232-239.
19. **Bertuccio 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.
20. **Bertuccio M**, Cesari P, Latash ML. Fitts' Law in early postural adjustments. *Neuroscience*. 2013; 213: 61-69.
21. Young SJ, **Bertuccio 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.
22. **Bertuccio M**, Cesari P. Does movement planning follow Fitts' law? Scaling anticipatory postural adjustments with movement speed and accuracy. *Neuroscience*. 2010; 171(1): 205-213.
23. Milanese C, Bortolami O, **Bertuccio 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.
24. **Bertuccio 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.
25. 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. **Bertucco 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, **Bertucco 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, **Bertucco 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, **Bertucco 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, **Bertucco 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. **Bertucco 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, **Bertucco 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. **Bertucco 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. **Bertucco 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, **Bertucco 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, **Bertucco 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, **Bertuccio 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. **Bertuccio 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. **Bertucco 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*.

Affiliazioni a Società Scientifiche

- 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

Competenze Tecniche/Strumentali

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

Competenze di Programmazione

- Analisi and Statistica: Matlab, R, SPSS, SigmaPlot, SigmaStat, DataGraph.
- Linguaggi di programmazione: Objective C, C++, Python (base)
- Software di produttiva: MS Office, iWork
- Sistema operativo: Mac OSX, Windows

Lingue

- Italiano
- English
- Dialetto Veronese

Licenze

2007

1. Istruttore di Karate, cintura nera 5° Dan, FESIK (Federazione Italiana Sportiva di Karate)

2001

2. Istruttore di nuoto 2° livello, FIN (Federazione Italiana di Nuoto)

1999

3. Certificato di Paracadutista Militare, Esercito Italiano

Interessi

- Sport: karate, pugilato, ciclismo, corsa, tennistavolo, escursionismo, arrampicata.
- Cultura: lettura, cinema, musica, degustazione vini e cibi.

Servizio Militare

- 1° Reggimento Carabinieri Paracadutisti "Tuscania", 1998-1999

Principali risultati agonistici di karate

2009

1. 1° posto, Campionati Mondiali 2009 WUKO, Guadalajara, Messico, gara individuale.
2. 1° posto, Campionati Mondiali 2009 WUKO, Guadalajara, Messico, gara a squadre.

2007

3. 1° posto, Campionati Mondiali 2007 WUKO, Valencia, Spagna, gara a squadre.

2006

4. 1° posto, Campionati Europei 2006 WUKO, St. Polten, Austria gara a squadre.
5. 3° posto, Campionati Europei 2006 WUKO, St. Polten, Austria gara individuale.

2005

6. 2° posto, Campionato Mondiali 2005 WKC, Fortaleza, Brasile gara individuale.

E più di 100 premi in gare nazionali ed internazionali.