## PROFESSIONAL SUMMARY

I am a Neuroscientist with more than 15 years of experience in academic research, teaching, and presenting (oral presentations and posters) in over 20 national and international meetings. My genuine passion for science writing has significantly amplified through my journey as a scientist and teacher. As a scientist, I have been drafting my own research papers and successfully applied for grants, and I have been editing my colleagues' drafts. As a teacher, I learned how to deliver complex information into a clear and concise message appealing to college students. Additionally, during my career as an MD, I gained ample experience in many fields of clinical research. I have had the privilege to study and work in Europe and in the US, which has provided me with the ideal environment to overcome language and cultural barriers, to become very sensitive to nuances in communication, and to work in close collaboration with great scientists, medical specialists, and students eager to expand their scientific knowledge.

As my medical and scientific career evolves, my day-to-day activities involve more creative thinking, writing and strategic planning and I consider leveraging those skills to serve pharmaceutical and biotech professionals and provide clients with the best possible strategies to communicate clear, scientifically compelling and fashionably consistent messages to the healthcare practitioners and to the general public.

I would be delighted to make my broad expertise and dedication available to your company and establish myself as a part of a collaborative and creative team. I firmly believe that my experience, accomplishments, and interests fit perfectly the position of Medical Writer and that I would be an excellent asset to your company.

## EDUCATION

### PhD, Neuroscience (Neurophysiology), University of Verona in Verona, Italy (2002 - 2008)

* Awarded a full scholarship from the Ministry of Education of Italy to attend the PhD program
* Focused on neuromuscular junction and the motor system as primary research topics
* First-authored six original papers in leading journals in the field (*J Physiol, PNAS,* etc.) and five reviews

### MD, Medicine and Surgery, University of Padova in Padova, Italy (1995 - 2002)

* Graduated with Honors
* Awarded a full scholarship from the European Erasmus Project to attend courses and clinical practice for one year at the University of Oviedo in Spain
* Authored a paper in the *Journal of NeuroVirology* as a result of the thesis work
* Obtained Italian Medical Board Certification (General Medicine) after one year of clinical practice

## EXPERIENCE

**The Children's Hospital of Philadelphia**, Philadelphia, PA

**Postdoctoral Researcher:** November 2015 – Present

Responsibility as a Postdoctoral Researcher:

* Developed and submitted grant and fellowship applications as Principal Investigator
* Regularly presented research findings and recently-published articles to the internal team as well as external research groups at Children's Hospital and University of Pennsylvania
* Designed and executed basic research experiments on a mouse model of genetic epilepsy (Dravet syndrome) and presented preliminary results to local and national institutions
* Trained and supervised one undergraduate student and co-tutored a graduate student and several junior lab members

**University of Verona,** Verona, Italy

**Assistant Professor:** March 2013 – October 2015

* Successfully applied for grants as Principal Investigator using English as the official language and was awarded:
  + Two grants from the Italian Ministry of Education
  + The Telethon Grant, to study a familial form of migraine in collaboration with the University of Padova
* Carried out 2 collaborative projects with researchers from University of Padova and Verona: the resulting papers are currently being drafted or under review
* Taught " Human Physiology" course to 60 physical therapy students per year
* Trained undergraduate and graduate students

**Drexel University College of Medicine,** Philadelphia, PA

**Postdoctoral Researcher:** January 2009 – February 2013

* Analytically reviewed literature, planned, and conducted research on the generation of different brain states (e.g., sleep *vs.* wakefulness) in the neocortex
* Analyzed and interpreted the data, drafted papers for publications
* Published 4 peer-reviewed papers as first (2) and last (2) author, presented research findings in national conferences and gave seminars as invited speaker
* Trained junior members in the lab

**SKILLS**

* Analytical and critical thinking
* Detail oriented
  + Critical analysis and interpretation of scientific results and the published literature throughout the career and synthesis into a comprehensive and easily-understood summary
  + Designed experiments to answer key scientific questions
* Impeccable written and verbal communication skills
  + Wrote 8 papers as first author and contributed to writing of another two (last author) which were published in leading Neuroscience journals
  + Wrote and applied for grants as a Principal Investigator
* Gave oral presentations and presented posters at national and international meetings and prepared conference reports
* Teaching
  + Taught “Human Physiology” to undergraduate college students, including cardiovascular, respiratory, renal and gastrointestinal physiology (syllabus available upon request)
  + Trained undergraduate and graduate students as well as lab members in neuroscience and research techniques
* Time management and ability to work independently
* Excellent interpersonal and teamwork skills
* Technical skills
  + *In vitro* and *in vivo* electrophysiology, synaptic pharmacology and plasticity, optogenetics
* Proficiency in using Microsoft Word, PowerPoint, Excel, Adobe Acrobat, and reference-management software (EndNote)
* Proficiency in conducting Internet searches (PubMed, Scopus, etc.)
* Working knowledge of the AMA Manual of Style
* Language skills
* English: full professional proficiency
* Italian: native proficiency
* Spanish: full professional proficiency
* French: professional working proficiency

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

* Society for Neuroscience (SfN), 2007-present
* American Epilepsy Society (AES), 2015-present
* Association for Women in Science (AWIS), 2017-present
* American Medical Writer Association (AMWA), 2017-present

## RELEVANT VOLUNTEERING ACTIVITIES

* Contributor to the Biomedical Postdoctoral Council Newsletter, University of Pennsylvania
* Awarded 1200 Euros (together with 2 fellow scientists) by the Federation of European Neuroscience Societies (FENS), Section of History, for a project proposal aimed at developing a website and short documentary entitled: "Untold stories: the Women Pioneers of Neuroscience in Europe"

## PUBLICATIONS

### Peer-reviewed Publications

1. M.A. Castro-Alamancos, **M. Favero** (2016).Whisker-related afferents in superior colliculus. *J Neurophysiol.* 115:2265-79.
2. M.A. Castro-Alamancos, **M. Favero** (2015). NMDA receptors are the basis of persistent network activity in neocortex slices. *J Neurophysiol.*113:3816-3826.
3. **M. Favero**, A. Cangiano, G. Busetto (2015).Adult rat motor neurons do not re-establish electrical coupling during axonal regeneration and muscle reinnervation. *PlosONE.* 10: e0123576. d*oi:10.1371/journal.pone.0123576.*
4. **M. Favero**, M.A. Castro-Alamancos (2013). Synaptic cooperativity regulates persistent network activity in neocortex. *J Neurosci.* 33:3151-63.
5. **M. Favero**, G. Varghese and M. A. Castro-Alamancos (2012). The state of somatosensory cortex during neuromodulation. *J Neurophysiol.* 108:1010-1024.
6. **M. Favero**, G. Busetto, A. Cangiano(2012). Spike timing plays a key role in synapse elimination at the neuromuscular junction. *Proc Natl Acad Sci.* 109**:**E1667-E1675.
7. **M. Favero,** M. Buffelli, A. Cangiano, G. Busetto (2010). The timing of impulse activity shapes the process of synaptic competition at neuromuscular junction*. Neuroscience.* 167:343-353*.*
8. **M. Favero**, O. Massella, A.Cangiano, M.Buffelli (2009). On the mechanism of action of muscle fiber activity in synapse competition and elimination at the mammalian neuromuscular junction. *Eur J Neurosci.* 29:2327-34*.*
9. **M. Favero**, D.J. Jiang, C. Chiamulera, A. Cangiano, G.F. Fumagalli (2008). Expression of small conductance calcium-activated potassium channel (SK3) in skeletal muscle: regulation by muscle activity*. J Physiol.* 586:4763-74.
10. **M. Favero**, E. Lorenzetto, C. Bidoia, M. Buffelli, G. Busetto, A. Cangiano (2007). Synapse formation and elimination: Role of activity studied in different models of adult muscle reinnervation. *Journal Neurosci Res.*85:2610-9.
11. G. Altavilla, A. Calistri, A. Cavaggioni, **M. Favero**, C. Mucignat-Caretta, G Palù (2002). Brain resistance to HSV-1 encephalitis in a mouse model. *Journal of NeuroVirology*. 8:180-190.

### Peer-reviewed and Invited Reviews

1. **M. Favero**, A. Cangiano, G. Busetto (2015). Lesson from the neuromuscular junction: role of pattern of nerve activity in development. *Invited Editorial in Neural Regeneration Research.* 10:686-688.
2. **M. Favero**, A. Cangiano, G. Busetto (2014).The timing of activity is a regulatory signal during development of the neural connections. *J Mol Neurosci.* 53:324–329.
3. **M. Favero**, A. Cangiano, G. Busetto (2014).Hebb-based rules of neural plasticity: are they ubiquitously important for the refinement of synaptic connections in development? *The Neuroscientist*. 20:8-14. (*Cover picture)*
4. Buffelli M, Busetto G, **Favero M**, Cangiano L and Cangiano A (2011). Synaptic plasticity at developing neuromuscular junctions: role of the timing of spike activity in the competing inputs. *Arch. Ital. Biol.* 49, n.4 Suppl:167-174.
5. M. Buffelli, G. Busetto, C. Bidoia, **M. Favero**, A. Cangiano (2004). Activity-dependent Synaptic Competition at Mammalian Neuromuscular Junctions” *News in Physiological Sciences*. 19:85-91.(*Cover picture)*

### Under Review

1. T. Becker, **M. Favero**, V. Di Marzo, L. Cristino, G. Busetto (2017) Endocannabinoid-dependent disinhibition of hypothalamic orexinergic neurons in leptin-knockout obese mouse. Submitted to *J Neurophysiol.*

### Complete list of invited talks and conference papers available upon request.

**References:** *Available upon request.*