

Dr Pierre Nicolo

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CURRICULUM VITAE

1. PERSONAL DETAILS

Nicolo Pierre

Single, 1 child

Born in Sion (Valais), 04.06.1982

Nationality : Swiss / Italian

2. EMPLOYMENT HISTORY

- Since 11/2020 **Assistant Professor (PAPTC)**, Haute Ecole de Santé Genève / Hôpitaux Universitaires de Genève (HESGE-HUG¹), Geneva, Switzerland.
- Since 11/2019 **Lecturer**, Institut des Sciences et Techniques de la Réadaptation, Université Claude Bernard Lyon 1, France
- Since 11/2019 **Lecturer**, Institut de formation de masso-kinésithérapie pour déficients de la vue, Lyon, France
- Since 04/2018 **Thesis Director** (Bachelor), Institut des Sciences et Techniques de la Réadaptation, Université Claude Bernard Lyon 1, France
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- 02/2020-10/2020 **Scientific Collaborator**, Hôpitaux Universitaire de Genève (HUG), Geneva, Switzerland
- 09/2018-05/2019 **Thesis Director** (Bachelor), Institut de formation de masso-kinésithérapie (IFMK), Orleans, France.
- 02/2017-02/2020 **Post-Doctoral Researcher**, chez Hôpitaux Universitaires de Genève (HUG), Geneva, Switzerland
- 09/2013-01/2017 **Clinical Scientist**, PhD Neurosciences, chez Hôpitaux Universitaire de Genève (HUG), Geneva, Suisse.
- 09/2012-08/2013 **Teaching Assistant**, Haute Ecole de Santé Genève, physiothérapie (HESGE), Geneva, Switzerland
- 01/2012-08/2012 **Physiotherapist**, « Le Noirmont », Le Noirmont, Switzerland.

¹ Affiliation HUG within the scope of conducting clinical research projects as Principal Investigator.

01/2011-12/2011	Consultant (Mandate), société “Myotest”, Sion, Switzerland.
09/2009-08/2010	Physiotherapist, “Hôpital Neuchâtelois”, la Chaux-de-Fonds, Switzerland
2009-2009 (3 mois)	Physiotherapist (Internship), Hôpital “La Providence“, Neuchâtel, Switzerland.
2008-2008 (3 mois)	Physiotherapist (Internship), Hôpital “de Lavaux”, Cully, Switzerland.
2007-2007 (3 mois)	Physiotherapist (Internship), CHUV, Lausanne, Switzerland (100%).

3. DIPLOMAS

2020 Certificate of Advanced Studies (CAS) in Project Management, Faculté d'économie et de management (GSEM), University of Geneva (UNIGE), Switzerland.

2016 Doctorate in Neurosciences, Lemanic Neuroscience Doctoral School and Medical School, University of Geneva (UNIGE), Switzerland.

(Doctoral thesis : Plasticité neuronale de réseau et ses modulations par stimulations cérébrales non-invasives. 5.5).

2013 Master in Movement Sciences and Sports, Orientation « Adapted Physical Activity », University of Lausanne (UNIL), Switzerland

(Master thesis : Activation corticale et neurophysiologie de la fatigue centrale et périphérique suite à une contraction isométrique du triceps sural. 5.5).

2009 Bachelor of Science in Physiotherapy, Haute Ecole de Santé du canton de Vaud (HESAV), Lausanne, Switzerland.

(Bachelor thesis : La qualité de vie des blessés médullaires : échelles et questionnaires, un écho fidèle des expériences vécues par les patients).

2003 Maturité Certificate, optional modules : economics and law, Lycée collège des Creusets, Sion, Suisse.

4. CERTIFICATES AND CONTINUING UNIVERSITY EDUCATION

2018-2019 Training in University Teaching (75 h), Pôle de soutien à l'enseignement et l'apprentissage (SEA), UNIGE.

2017 Workshops « Perfectionnement pour Enseignants et Chercheurs », Pôle de soutien à l'enseignement et l'apprentissage (SEA), UNIGE.

2017 Training for co-investigators : Les bonnes pratiques des essais cliniques » (Good Clinical Practice), UNIGE, Centre de Recherche Clinique (CRC) et HUG) (1.5 crédits).

2012-2013 Kinesio Taping: fundamentals and advanced (KT1-KT2); advanced and corrective (KT3), International Association of Kinesio Taping (2x16h).

5. RESEARCH ACTIVITIES

My projects aim at i) characterizing brain reorganization after stroke, ii) identifying prognostic factors, iii) studying the effects of non-invasive cerebral stimulation (repetitive transcranial magnetic stimulation (rTMS) and transcranial direct current stimulation (tDCS)) and brain machine interfaces (BCI) on motor re-learning and neuroplasticity in healthy participants and stroke patients. I am using electroencephalography (EEG) and DTI analyses (tractographie) to evaluate functional and structural connectivity to study underlying brain changes.

- Ad hoc reviewer pour des journaux scientifiques (<https://publons.com/author/1358901/nicolas-pierre#profile>)

5.1. RECEIVED FUNDING for research projects :

- Spark FNS (93'417 CHF.-) ; *Effets de la stimulation magnétique transcrânienne (SMTr) sur l'organisation du cerveau et l'apprentissage moteur chez des sujets sains.* (id 2019-01440).
- Project of Research and Development (PRD), HUG, (44'700 CHF.-) ; *Stimulation transcrânienne par courant continu (tdcs) sur la plasticité cérébrale et l'amélioration de la marche après un accident vasculaire cérébral.* (id 2019-02227).

6. MEMBERSHIPS

Swiss Sports Physiotherapy Association (SSPA)

Kiné_Physiothérapeutes_PhD

Société Française de Physiothérapie (SFP)

7. AWARDS

2015 **EBERHARD KETZ-PREIS**, Société Suisse de Neurologie, pro humanis, Rehaklinik Zihlschlacht AG, Suisse.

2016 **PFIZER-FORSCHUNGSPREIS** für Clinical research in neurorehabilitation, Zurich, Suisse.

8. PUBLICATIONS (selection of 10 peer-reviewed scientific articles)

- Pierella C, Pirondini E, Kinany N, Coscia M, Giang C, Miehlbradt J, Magnin C, **Nicolo P**, et al. *A multimodal approach to capture post-stroke temporal dynamics of recovery.* Journal of Neural Engineering 2020;17(4):045002.
- Giang C, Pirondini E, Kinany N, Pierella C, Panarese A, Coscia M, Miehlbradt J, Magnin C, **Nicolo P** et Guggisberg A. *Motor improvement estimation and task adaptation for personalized robot-aided therapy: a feasibility study.* Biomedical Engineering Online 2020;19(1):33.
- **Nicolo P**, Magnin C, Pedrazzini E, Plomp G, Mottaz A, Schnider A, Guggisberg A. *Comparison of Neuroplastic Responses to Cathodal Transcranial Direct Current Stimulation and Continuous Theta Burst Stimulation in Subacute Stroke.* Archives of Physical Medicine and Rehabilitation 2018;99(5):862-872.e.
- Mottaz A, Corbet T, Doganci N, Magnin C, **Nicolo P**, Schnider A, Guggisberg A. *Modulating functional connectivity after stroke with neurofeedback: Effect on motor deficits in a controlled cross-over study.* NeuroImage : Clinical 2018;20:336-346.
- **Nicolo P**, Magnin C, Pedrazzini E, Nguyen-Danse DA, Guggisberg A. *Transcranial direct current stimulation reduces secondary white-matter degradation after stroke.* Brain Stimulation 2018;11(6):1417-1419.
- Guggisberg A, **Nicolo P**, Cohen LG, Schnider A, Buch ER. *Longitudinal Structural and Functional Differences Between Proportional and Poor Motor Recovery After Stroke.* Neurorehabilitation and Neural Repair 2017;31(12):1029-1041 (IF 4.170).
- **Nicolo P**, Fargier R, Laganaro M, Guggisberg A. *Neurobiological Correlates of Inhibition of the Right Broca Homolog during New-Word Learning.* Frontiers in Human Neuroscience 2016;10(371).
- Buch ER, Rizk S, **Nicolo P**, Cohen LG, Schnider A, Guggisberg A. *Predicting motor improvement after stroke with clinical assessment and diffusion tensor imaging.* Neurology 2016;86(20):1924-5.
- **Nicolo P**, Rizk S, Magnin C, Di Pietro Peralta-Bachman M, Schnider A, Guggisberg A. *Coherent neural oscillations predict future motor and language improvement after stroke.* Brain 2015;138:3048-60.
- **Nicolo P**, Ptak R, Guggisberg A. *Variability of behavioural responses to transcranial magnetic stimulation: Origins and predictors.* Neuropsychologia 2015;74:137-44.