

Aline de Souza Pagnussat

Curriculum Vitae

Personal Information

Full name Aline de Souza Pagnussat

Professional Address Fundação Universidade Federal de Ciências da Saúde de Porto Alegre
245 Sarmiento Leite Street
Centro Histórico - Porto Alegre
Zip code 90050170, RS - Brazil
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Professional Address Georgia State University
Urban Life Building
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Formal Education

- 2005 - 2009** Doctorate in Physiology – Neuroscience
Universidade Federal do Rio Grande do Sul, UFRGS, Porto Alegre, Brazil
Title: Aspectos motores e neurais em ratos submetidos à lesão do Sistema Nervoso Central e Periférico e tratamento de reabilitação, Year of degree: 2009
Advisor: Carlos Alexandre Netto
Scholarship from: National Council for Scientific and Technological Development - CNPq
- 2003 - 2005** Master's in Physiology - Neuroscience
Universidade Federal do Rio Grande do Sul, UFRGS, Porto Alegre, Brazil
Title: Caracterização da morte celular em neurônios da região CA1 do hipocampo de ratos submetidos à isquemia global transitória e reperfusão, Year of degree: 2005
Advisor: Matilde Achaval Elena
Scholarship from: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior
- 1998 - 2002** Bachelor in Physiotherapy
Universidade Federal de Santa Maria, UFSM, Santa Maria, Brazil
Title: O uso da Acupuntura na redução da Espasticidade em Adultos com Seqüela de Acidente Vascular Cerebral
Advisor: Claudia Morais Trevisan
Scholarship from: National Council for Scientific and Technological Development - CNPq

Professional Experience

1. Politecnico di Milano - POLIMI

Contract institutional

2014 - 2014 Position: Visitor researcher – collaboration with Professor Manuela Galli and Professor Veronica Cimolin - Dipartimento di Elettronica, Informazione e Bioingegneria - Politecnico di Milano.

2. Georgia State University - GSU

Contract institutional

2022 - Current Contract: Professor Visitante , Position: Associate Professor , Working hours (weekly): 40, Schemes of job: Full-time
Other information:
Fulbright Scholar in Residence - Academic Year 2022/2023. Associate Professor at the Department of Physical Therapy - Byrdine F. Lewis School of Nursing and Health Professions.

Activities

08/2022 - Current Other technician-scientific activity, Byrdine F. Lewis School of Nursing and Health Professions
Specification:
Fulbright Scholar in Residence

08/2022 - Current Graduate degree, Physical Therapy
Disciplines Taught:
Movement Science II

3. Fundação Universidade Federal de Ciências da Saúde de Porto Alegre - UFCSPA

Contract institutional

2010 - Current Position: Associate Professor
Schemes of job: Full-time and exclusiveness

Activities

10/2015 - 11/2019 Management and Administrative Positions
Coordinator of the Rehabilitation Sciences Program

05/2015 - Current Management and Administrative Positions
Coordinator of the Movement Analysis and Rehabilitation Laboratory

01/2015 - 01/2017 Management and Administrative Positions
Vice-coordinator of the Physiotherapy Undergraduate Course

05/2013 - 10/2015 Management and Administrative Positions
Vice- coordinator of the Rehabilitation Sciences Program

01/2013 - 01/2015 Management and Administrative Positions
Vice- coordinator of the Department of Physiotherapy

11/2010 - Current Teaching and research
Undergraduate course in Physiotherapy
Rehabilitation Sciences Graduate Program – MSc and PhD
Health Sciences Graduate Program – MSc and PhD

4. Harvard University - HARVARD

Contract institutional

2010 - 2010 Position: Visitor researcher – collaboration with Professor Eng H. Lo from the Neuroprotection Research Laboratory Department of the Neurology and Radiology Massachusetts General Hospital

5. Universidade Federal do Pampa - UNIPAMPA

Contract institutional

2008 - 2010 Position: Adjunct professor
Schemes of job: Full-time and exclusiveness

Activities

2008 - 2010 Teaching and research
Undergraduate course in Physiotherapy

6. Memorial University of Newfoundland - MUN

Contract institutional

2006 - 2006 Position: Visitor researcher - Division of Basic Medical Sciences; Faculty of Medicine; The Health Sciences Centre. Laboratory Professor of Neurosciences Dale Corbett - Canada Research Chair in Stroke and Neuroplasticity.

7. Universidade Estadual do Oeste do Paraná - UNIOESTE

Contract institutional

2006 - 2008 Position: Temporary professor

Activities

01/2006 - 01/2008 Teaching
Undergraduate course in Physiotherapy

Scientific Production – LAST FIVE YEARS

Bibliographic Production (The complete list of manuscripts published can be access on

<https://pubmed.ncbi.nlm.nih.gov/?term=Pagnussat%20A%5BAuthor%5D%20OR%20Pagnussat%20Ade%20S%5BAuthor%5D%20OR%20Pagnussat%20AS%5BAuthor%5D%20OR%20de%20Souza%20Pagnussat%20A%5BAuthor%5D&cmd=DetailsSearch>

Articles Published in Scientific Journals

1. DA CUNHA, MAIRA JAQUELINE; PINTO, CAMILA; SCHIFINO, GIULIA PALERMO; SANT'ANNA PY, ISABELA; CIMOLIN, VERONICA; **PAGNUSSAT, ALINE SOUZA**. Bicephalic Transcranial Direct-Current Stimulation Does Not Add Benefits to a Footdrop Stimulator for Improving Functional Mobility in People with Chronic Hemiparesis after Stroke: a Double-Blind, Randomized Controlled Trial. *PHYSICAL THERAPY*, v.pzac07, p.x - , 2022.
2. CASTRO CC, DE SOUZA PAGNUSSAT A, MUNHOZ CD, NETTO CA. Coumestrol pre-treatment improves spatial learning and memory deficits following transient cerebral ischemia recruiting hippocampal GluR2 AMPA receptors. *Hippocampus*. 2022 Mar 29. doi: 10.1002/hipo.23418. Epub ahead of print. PMID: 35347795.
3. SCHIFINO, GIULIA; CIMOLIN, VERONICA; PAU, MASSIMILIANO; DA CUNHA, MAIRA JAQUELINE; LEBAN, BRUNO; PORTA, MICAELA; GALLI, MANUELA; **SOUZA PAGNUSSAT, ALINE**. Functional Electrical Stimulation for Foot Drop in Post-Stroke People: Quantitative Effects on Step-to-Step Symmetry of Gait Using a Wearable Inertial Sensor. *SENSORS.*, v.21, p.921 -, 2021.
4. CUNHA, M. J.; RECH, K.; SALAZAR, A. P.; **Pagnussat, A.S.** Functional electrical stimulation of the peroneal nerve improves post-stroke gait speed when combined with physiotherapy. A systematic review and meta-analysis. *Annals of Physical and Rehabilitation Medicine.*, v.64, p.101388 -, 2021.
5. GARCIA, FLORA DO VALE; DA CUNHA, MAIRA JAQUELINE; SCHUCH, CLARISSA PEDRINI; SCHIFINO, GIULIA PALERMO; BALBINOT, GUSTAVO; **PAGNUSSAT, ALINE SOUZA**. Movement smoothness in chronic post-stroke individuals walking in an outdoor environment-A cross-sectional study using IMU sensors. *PLoS One.*, v.16, p.e0250100 -, 2021.
6. PINTO, C.; SALAZAR, ANA PAULA; KERR, G.; HENNIG, E. M.; **Pagnussat, A.S.** Dual-task walking reduces lower limb range of motion in individuals with Parkinson's disease and freezing of gait: But does it happen during what events through the gait cycle? *PLoS One.*, v.15, p.e0243133 -, 2020.
7. **Pagnussat, A.S.**; SALAZAR, ANA PAULA; PINTO, C.; MARCHESE, R. R.; RIEDER, CARLOS R.M.; ALVES FILHO, J. O.; FRANCO, A. R.; KLEINER, A. F. R. Plantar stimulation alters brain connectivity in idiopathic Parkinson's disease. *ACTA NEUROLOGICA SCANDINAVICA.*, 2020.
8. FIGUEIREDO, A. I.; BALBINOT, G.; BRAUNER, F.; SCHIAVO, A.; BAPTISTA, R. R.; **PAGNUSSAT, ALINE SOUZA**; HOLLANDS, K. L.; Mestriner, Régis. SPARC metrics provide mobility smoothness assessment in oldest-old with and without a history of falls: A case control study. *Frontiers in Physiology*, 2020.
9. PASSOS-MONTEIRO, ELREN; PEYRÉ-TARTARUGA, LEONARDO A.; ZANARDI, ANA P.J.; DA SILVA, EDSON S.; JIMENEZ-REYES, PEDRO; MORIN, JEAN-BENOIT; **Pagnussat, Aline S.** Sprint exercise for subjects with mild-to-moderate Parkinson's disease: Feasibility and biomechanical outputs. *CLINICAL BIOMECHANICS.* , v.72, p.69 - 76, 2020.
10. SALAZAR, A. P.; CIMOLIN, V.; SCHIFINO, GIULIA PALERMO; RECH, K.; MARCHESE, R. R.; **PAGNUSSAT, AS**. Bi-cephalic transcranial direct current stimulation combined with functional electrical stimulation for upper-limb stroke rehabilitation: A double-blind randomized controlled trial. *Annals of Physical and Rehabilitation Medicine.* , p.x - , 2019.
11. PINHO, A. S.; SALAZAR, ANA PAULA; HENNIG, E. M.; SPESSATO, B. C.; DOMINGO, A.; **PAGNUSSAT, A. S.** Can We Rely on Mobile Devices and Other Gadgets to Assess the Postural Balance of Healthy Individuals? A Systematic Review. *SENSORS.*, v.19, p.2972 - , 2019.
12. MARQUES, P. A.; MONTEIRO, E. P.; FAGUNDES, A. O.; COSTA, R. R.; MARTINEZ, F. G.; **Pagnussat, A.S.**; PEYRE-TARTARUGA, L. A. Efeitos da caminhada nórdica no perfil antropométrico e composição corporal de pessoas com doença de Parkinson: ensaio clínico randomizado.. *ConScientiae Saúde.*, v.18, p.1 - , 2019.
13. RECH, KATIA DANIELE; SALAZAR, A. P.; MARCHESE, R. R.; SCHIFINO, GIULIA; CIMOLIN, VERONICA; **Pagnussat, A.S.** Fugl-Meyer Assessment Scores Are Related with Kinematic Measures in People with Chronic Hemiparesis after Stroke. *Journal of Stroke & Cerebrovascular Diseases.*, p.104463 -, 2019.
14. CABELEIRA, MARIA EDUARDA PARCIANELLO; **PAGNUSSAT, ALINE SOUZA**; DO PINHO, ALEXANDRE SEVERO; ASQUIDAMINI, ANE CAROLINE DOTTA; FREIRE, ARIANE BOLLA; PEREIRA, BRENDA TUBELO; DE MELLO RIEDER, CARLOS ROBERTO; SCHIFINO, GIULIA PALERMO; FORNARI, LUIS HENRIQUE TIEPPO; JUNIOR, NEIVO DA SILVA; CORRÊA, PHILIPPE SOUZA; Cechetti, Fernanda. Impairments in gait kinematics and postural control may not correlate

- with dopamine transporter depletion in individuals with mild to moderate Parkinson's disease. EUROPEAN JOURNAL OF NEUROSCIENCE. , v.x, p.1 - 9, 2019.
15. CORRÊA, PHILIPPE SOUZA; **PAGNUSSAT, ALINE SOUZA**; CABELEIRA, MARIA EDUARDA PARCIANELLO; SCHIFINO, GIULIA PALERMO; RIEDER, CARLOS ROBERTO DE MELLO; SILVA JUNIOR, NEIVO; Cechetti, Fernanda. Is the dopaminergic loss associated with gait and postural impairments in subjects with Parkinson's disease at different motor stages? EUROPEAN JOURNAL OF NEUROSCIENCE, 2019.
 16. PINTO, C.; SCHUCH, C.; BALBINOT, G.; SALAZAR, ANA PAULA; HENNIG, E. M.; KLEINER, A. F. R.; **PAGNUSSAT, ALINE DE SOUZA**. Movement smoothness during a functional mobility task in subjects with Parkinson's disease and freezing of gait: an analysis using inertial measurement units. Journal of NeuroEngineering and Rehabilitation., v.16, p.110 - , 2019.
 17. SALAZAR, ANA PAULA; **PAGNUSSAT, AS**; PEREIRA, G. A.; SCOPEL, G.; LUKRAFKA, J. L. Neuromuscular electrical stimulation to improve gross motor function in children with cerebral palsy: a meta-analysis. Brazilian Journal of Physical Therapy., p.x - , 2019.
 18. VAZ, P. G.; SALAZAR, A. P.; STEIN, CINARA; MARCHESE, R. R.; LUKRAFKA, J. L.; PLENTZ, R.D.M.; **Pagnussat, Aline S**. Noninvasive brain stimulation combined with other therapies improves gait speed after stroke: a systematic review and meta-analysis. Topics in Stroke Rehabilitation., 2019.
 19. DURÁN-CARABALI, L. E.; SANCHES, E. F.; ODORCYK, F. K.; NICOLA, F.; MESTRINER, R. G.; REICHERT, L.; Aristimunha, D.; **PAGNUSSAT, A. S.**; NETTO, C. A. Tissue Injury and Astrocytic Reaction, But Not Cognitive Deficits, Are Dependent on Hypoxia Duration in Very Immature Rats Undergoing Neonatal Hypoxia-Ischemia. NEUROCHEMICAL RESEARCH., 2019.
 20. SCHIEFELBEIN, M. L.; SALAZAR, ANA PAULA; MARCHESE, R. R.; RECH, K.; SCHIFINO, G. P.; FIGUEIREDO, C. S.; CIMOLIN, V.; **PAGNUSSAT, ALINE DE SOUZA**. Upper-limb movement smoothness after stroke and its relationship with measures of body function/structure and activity: A cross-sectional study. JOURNAL OF THE NEUROLOGICAL SCIENCES., 2019.
 21. BELGAMO, A.; **Pagnussat, Aline**; SILVA, A. A. C. E.; SFORZA, C.; ROCHA, N. A. C. F. Wearable sensors, cerebral palsy, and gait assessment in everyday environments: Is it a reality? – A systematic review. Functional Neurology (Roma. Testo Stampato)., v.34, p.85 - 91, 2019.
 22. PRUSCH, J.; KLEINER, A. F. R.; SALAZAR, ANA PAULA; PINTO, C.; MARCHESE, R. R.; GALLI, M.; **PAGNUSSAT, AS**. Automated Mechanical Peripheral Stimulation and Postural Control in Subjects with Parkinson Disease and Freezing of Gait: A Randomized Controlled Trial. Functional Neurology (Roma. Testo Stampato)., v.33, p.206 - 212, 2018.
 23. KLEINER, ANA FRANCISCA ROZIN; **SOUZA PAGNUSSAT, ALINE**; PINTO, CAMILA; REDIVO MARCHESE, RITCHELE; SALAZAR, ANA PAULA; GALLI, MANUELA. Automated Mechanical Peripheral Stimulation Effects on Gait Variability in Individuals with Parkinson Disease and Freezing of Gait: A Double-Blind, Randomized Controlled Trial. ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION. , v.99, p.2420 - 2429, 2018.
 24. PINTO, CAMILA; **PAGNUSSAT, ALINE SOUZA**; ROZIN KLEINER, ANA FRANCISCA; MARCHESE, RITCHELE REDIVO; SALAZAR, ANA PAULA; RIEDER, CARLOS R.M.; GALLI, MANUELA. Automated Mechanical Peripheral Stimulation Improves Gait Parameters in Subjects with Parkinson Disease and Freezing of Gait. AMERICAN JOURNAL OF PHYSICAL MEDICINE & REHABILITATION., v.97, p.383 - 389, 2018.
 25. SALAZAR, A. P.; PINTO, C.; MOSSI, J. V. R.; FIGUEIRO, B.; LUKRAFKA, J. L.; **PAGNUSSAT, A. S**. Effectiveness of static stretching positioning on post-stroke upper-limb spasticity and mobility: systematic review with meta-analysis. Annals of Physical and Rehabilitation Medicine, 2018.
 26. MARCOLINO, M. A. Z.; HAUCK, M.; STEIN, C.; SCHARDONG, J.; **PAGNUSSAT, AS**; PLENTZ, R. D. M. Effects of transcutaneous electrical nerve stimulation alone or as additional therapy on chronic post-stroke spasticity: systematic review and meta-analysis of randomized controlled trials. DISABILITY AND REHABILITATION., 2018.
 27. PINTO, CAMILA; SALAZAR, ANA PAULA; MARCHESE, RITCHELE R.; STEIN, CINARA; **Pagnussat, Aline S**. Is hydrotherapy effective to improve balance, functional mobility, motor status, and quality of life in subjects with Parkinson's disease? A systematic review and meta-analysis. PM&R., v.11, p.278 - 291, 2018.]
 28. **PAGNUSSAT, AS**; KLEINER, A. F. R.; RIEDER, C. R. M.; FRANTZ, A.; EHLERS, J.; PINTO, C.; DORNELES, G.; NETTO, C. A.; PERES, A.; GALLI, M. Plantar stimulation in parkinsonians: From biomarkers to mobility - randomized-controlled trial. RESTORATIVE NEUROLOGY AND NEUROSCIENCE., v.36, p.195 - 205, 2018.
 29. SANTOS, F. P.; PERUCH, T.; KATAMI, S. J. V.; MARTINI, A. P. R.; CRESTANI, T. A.; QUINTILIANO, K.; MAURMANN, N.; SANCHES, E. F.; PRANKE, P.; ALEXANDRE NETTO, Carlos;

- PAGNUSSAT, AS.** Poly (lactide-co-glycolide) (PLGA) scaffold induces short-term nerve regeneration and functional recovery following sciatic nerve transection in rats. *NEUROSCIENCE*, 2018.
30. KLEINER, A. F. R.; ARCILA, D. M. C.; PINTO, C.; SALAZAR, A. P.; MARCHESE, R. R.; BARROS, R. M. L.; GALLI, M.; **PAGNUSSAT, AS.** The required coefficient of friction in Parkinson's Disease – People with Freezing of Gait. *Functional Neurology (Roma. Testo Stampato)*, v.33, p.137 - 142, 2018.
 31. KLEINER, ANA FRANCISCA ROZIN; **Pagnussat, Aline S.**; PRISCO, GIULIA DI; VAGNINI, ALESSANDRO; STOCCHI, FABRIZIO; DE PANDIS, MARIA FRANCESCA; GALLI, MANUELA. Analyzing gait variability and dual-task interference in patients with Parkinson's disease and freezing by means of the word-color Stroop test. *AGING CLINICAL AND EXPERIMENTAL RESEARCH.* , v.30, p.1137 - 1142, 2017.
 32. SALAZAR, A. P.; STEIN, CINARA; MARCHESE, R. R.; PLENTZ, R.D.M.; **PAGNUSSAT, AS.** Electric stimulation for pain relief in patients with fibromyalgia: A systematic review and meta-analysis of randomized controlled trials. *Pain Physician.*, v.20, p.15 - 25, 2017.
 33. VIERO, C. C. M.; KESSLER, L. P.; PINTO, C.; GONTIJO, K. N. S.; ROSA, R. G.; KLEINER, A. F. R.; PEYRE-TARTARUGA, L. A.; PINHO, A. S.; **PAGNUSSAT, AS.** Height of the Medial Longitudinal Arch During Classical Ballet Steps. *JOURNAL OF DANCE MEDICINE & SCIENCE.* , v.21, p.109 - 114, 2017.
 34. SALAZAR, A. P.; STEIN, CINARA; **Pagnussat, A.S.** Letter to the editor on -Textured and stimulating insoles for balance and gait impairments in patients with multiple sclerosis and Parkinson's disease: A systematic review and meta-analysis- by Martin Alfuth, *Gait & Posture (2017) 51, 132-141. GAIT & POSTURE.*, p.23 - 24, 2017.
 35. DURÁN-CARABALI, L.E.; SANCHES, E.F.; Marques, M.R.; Aristimunha, D.; **PAGNUSSAT, A.**; Netto, C.A. Longer hypoxia-ischemia periods to neonatal rats causes motor impairments and muscular changes. *NEUROSCIENCE.*, v.340, p.291 - 298, 2017.
 36. SALAZAR, ANA PAULA S.; VAZ, PATRÍCIA G.; MARCHESE, RITCHELE R.; STEIN, CINARA; PINTO, CAMILA; **Pagnussat, Aline S.** Noninvasive Brain Stimulation Improves Hemispatial Neglect After Stroke: A Systematic Review and Meta-Analysis. *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION.* , v.99, p.355 - 366, 2017.
 37. DURAN-CARABALI, L. E.; ARCEGO, D. M.; ODORCYK, F. K.; REICHERT, L.; CORDEIRO, J. L.; SANCHES, E.; FREITAS, L. D.; DALMAZ, C.; **PAGNUSSAT, AS**; NETTO, C. A. Prenatal and early postnatal environmental enrichment reduce acute cell death and prevent neurodevelopment and memory impairments in rats submitted to neonatal hypoxia ischemia.. *MOLECULAR NEUROBIOLOGY.*, v.18, p.1 - , 2017.
 38. MONTEIRO, E. P.; WILD, L. B.; MARTINEZ, F. G.; **Pagnussat, A.S.**; PEYRE-TARTARUGA, L. A. Aspectos biomecânicos da locomoção de pessoas com doença de Parkinson: revisão narrativa. *Revista Brasileira de Ciências do Esporte.* , p.xx - , 2016.
 39. ANTUNES, F. N.; PINHO, A. S.; KLEINER, A. F. R.; SALAZAR, A. P.; ELTZ, G. D.; OLIVEIRA, A. A.; Cechetti, Fernanda; GALLI, M.; **PAGNUSSAT, AS.** Different horse's paces during hippotherapy on spatio-temporal parameters of gait in children with bilateral spastic cerebral palsy: A feasibility study. *Research in Developmental Disabilities.* , v.59, p.65 - 72, 2016.
 40. GRAEF, PATRÍCIA; MICHAELSEN, STELLA M.; DADALT, MARIA L. R.; RODRIGUES, DAIANA A. M. S.; PEREIRA, FRANCIELE; **Pagnussat, Aline S.** Effects of functional and analytical strength training on upper-extremity activity after stroke: a randomized controlled trial. *REVISTA BRASILEIRA DE FISIOTERAPIA (ONLINE).* , v.20, p.543 - 552, 2016.
 41. GRAEF, PATRICIA; DADALT, MARIA LUÍSA ROCHA; RODRIGUÉS, DAIANA AMARAL MEDEIROS DA SILVA; STEIN, CINARA; **PAGNUSSAT, ALINE DE SOUZA.** Transcranial magnetic stimulation combined with upper-limb training for improving function after stroke: A systematic review and meta-analysis. *Journal of the Neurological Sciences.* , v.369, p.149 - 158, 2016.

Academic Advisory (Concluded):

Master's Thesis: Primary Advisor: 14 students

Master's Thesis: Secondary Advisor: 6 students

Ph.D. Thesis: Primary Advisor: 5 students

Ph.D. Thesis: Secondary advisor: 2 students

Supervision of Undergraduate Conclusion Essays: 19 students

Supervision of Undergraduate Students - Research Training: 22 students

Post-doctorate supervision: 1 professional

Academic Advisory (Current):

Master's Thesis: Primary Advisor: 6 students

Ph.D. Thesis: Primary Advisor: 4 students

Supervision of Undergraduate Students - Research Training: 5 students

Post-doctorate supervision: 2 professionals

Complete curriculum can be accessed on: <http://lattes.cnpq.br/3878749665469459>