



# Robby De Pauw

SENIOR RESEARCHER, STATISTICIAN, EPIDEMIOLOGIST

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## General information

- **Name:** Robby De Pauw
- **Date of Birth:** 25/07/1990
- **Place of Birth:** Asse
- **Nationality:** Belgian
- **Private adress:** Weversstraat 28, 9000 Ghent

## Education

### Ghent University

MSC. IN STATISTICAL DATA ANALYSIS

Ghent

2018 - 2019

### Ghent University

PHD. IN HEALTH SCIENCES

Ghent

2013 - 2019

### Ghent University

MSC. IN REHABILITATION SCIENCES AND PHYSIOTHERAPY

Ghent

2011 - 2013

## Additional courses

### Sciensano

INTRODUCTION TO SAS ENTERPRISE GUIDE

Belgium

2021

### Imperial College London

EPIDEMIOLOGY FOR PUBLIC HEALTH SPECIALIZATION

UK

2021

### Imperial College London

INFECTIOUS DISEASE MODELLING

UK

2020

### FLAMES

SPATIAL STATISTICS AND DATA ANALYSIS

Belgium

2020

### Johns Hopkins University

EPIDEMIOLOGY IN PUBLIC HEALTH PRACTICE SPECIALIZATION

United States

2020

### IHME

GLOBAL BURDEN OF DISEASE (GBD) ONLINE TRAINING

United States

2020

### TRIUM

ICH GCP E6 R2

Belgium

2020

### T!Write

BASIC ICH-GCP AND ISO 14155

Belgium

2020

### T!Write

QUALITY MANUAL SYSTEM TRAINING

Belgium

2020

### FLAMES

INTRODUCTION TO STRUCTURAL EQUATION MODELLING (SEM)

Belgium

2019

### FLAMES

FLAMES ANNUAL MEETING - GDPR

Belgium

2017

### FLAMES

FLAMES SUMMER SCHOOL IN METHODOLOGY AND STATISTICS

Belgium

2014

## FLAMES

ADVANCED ACADEMIC ENGLISH: WRITING SKILLS (LIFE SCIENCES & MEDICINE)

Belgium

2014

## Ghent University

ADVANCED ACADEMIC ENGLISH: CONFERENCE SKILLS

Belgium

2014

## Ghent University

FLAMES SUMMER SCHOOL IN METHODOLOGY AND STATISTICS

Belgium

2013

## Ghent University

DOCTORAL TRAINING PROGRAM

Belgium

2013 - 2019

## Professional experience

### Ghent University

GUEST PROFESSOR IN EPIDEMIOLOGY AND STATISTICS

Belgium

2023 -

### Sciensano

SENIOR RESEARCHER

Belgium

2020 -

### Ghent University

POST-DOCTORAL RESEARCH ASSISTANT

Belgium

2020 - 2022

### Breederode Hogeschool

TEACHER STATISTICS

Netherlands

2018 - 2023

### Independent at Twrite

STATISTICAL CONSULTANT

Belgium

2018 -

### Ghent University

RESEARCH ASSISTANT

Belgium

2013 - 2019

### Independent

PHYSIOTHERAPIST – MANUAL THERAPIST

Belgium

2013 - 2018

## Publications

1. De Pauw, R., Kregel, J., De Blaiser, C., Van Akeleyen, J., Logghe, T., Danneels, L., & Cagnie, B. (2015). Identifying prognostic factors predicting outcome in patients with chronic neck pain after multimodal treatment: A retrospective study. *Manual Therapy*, 20(4), 592–597.
2. Coppieters, I., Ickmans, K., Cagnie, B., Nijs, J., De Pauw, R., Noten, S., & Meeus, M. (2014). Cognitive performance is related to central sensitization and health-related quality of life in patients with chronic whiplash-associated disorders and fibromyalgia. *Pain Physician*, 18(3), E389–E401.
3. De Pauw, R., Coppieters, I., Kregel, J., De Meulemeester, K., Danneels, L., & Cagnie, B. (2016). Does muscle morphology change in chronic neck pain patients?—a systematic review. *Manual Therapy*, 22, 42–49.
4. Coppieters, I., Ickmans, K., Cagnie, B., Nijs, J., De Pauw, R., & Meeus, M. (2015). Cognitive performance is related to central sensitization in patients with chronic whiplash-associated disorders and fibromyalgia: A case-control study. *Pain Science in Motion Congress*.
5. Dewitte, V., De Pauw, R., Danneels, L., Bouche, K., Roets, A., & Cagnie, B. (2019). The interrater reliability of a pain mechanisms-based classification for patients with nonspecific neck pain. *Brazilian Journal of Physical Therapy*, 23(5), 437–447.
6. Coppieters, I., De Pauw, R., Caeyenberghs, K., Cagnie, B., Danneels, L., & Meeus, M. (n.d.). ALTERED GREY MATTER MORPHOLOGY OF PAIN PROCESSING REGIONS IN CHRONIC WHIPLASH PATIENTS: PRELIMINARY RESULTS.
7. Coppieters, I., De Pauw, R., Caeyenberghs, K., Danneels, L., Kregel, J., Pattyn, A., Meeus, M., & Cagnie, B. (2017). Decreased regional grey matter volume in women with chronic whiplash-associated disorders: Relationships with cognitive deficits and disturbed pain processing. *Pain Physician*, 20(7), E1025–E1051.
8. De Pauw, R., Coppieters, I., Palmans, T., Danneels, L., Meeus, M., & Cagnie, B. (2018). Motor impairment in patients with chronic neck pain: Does the traumatic event play a significant role? A case-control study. *The Spine Journal*, 18(8), 1406–1416.

9. Kregel, J., Coppieters, I., De Pauw, R., Malfliet, A., Danneels, L., Nijs, J., Cagnie, B., & Meeus, M. (2017). Does conservative treatment change the brain in patients with chronic musculoskeletal pain?: A systematic review. *Pain Physician*, 20(3), 139–154.
10. Coppieters, I., De Pauw, R., Kregel, J., Malfliet, A., Goubert, D., Lenoir, D., Cagnie, B., & Meeus, M. (2017). Differences between women with traumatic and idiopathic chronic neck pain and women without neck pain: Interrelationships among disability, cognitive deficits, and central sensitization. *Physical Therapy*, 97(3), 338–353.
11. De Meulemeester, K., Calders, P., De Pauw, R., Grymonpon, I., Govaerts, A., & Cagnie, B. (2017). Morphological and physiological differences in the upper trapezius muscle in patients with work-related trapezius myalgia compared to healthy controls: A systematic review. *Musculoskeletal Science and Practice*, 29, 43–51.
12. Malfliet, A., Kregel, J., Coppieters, I., De Pauw, R., Meeus, M., Roussel, N., Cagnie, B., Danneels, L., & Nijs, J. (2018). Effect of pain neuroscience education combined with cognition-targeted motor control training on chronic spinal pain: A randomized clinical trial. *JAMA Neurology*, 75(7), 808–817.
13. Dewitte, V., De Pauw, R., De Meulemeester, K., Peersman, W., Danneels, L., Bouche, K., Roets, A., & Cagnie, B. (2018). Clinical classification criteria for nonspecific low back pain: A delphi-survey of clinical experts. *Musculoskeletal Science and Practice*, 34, 66–76.
14. Coppieters, I., De Pauw, R., Caeyenberghs, K., Lenoir, D., DeBlaere, K., Genbrugge, E., Meeus, M., & Cagnie, B. (2018). Differences in white matter structure and cortical thickness between patients with traumatic and idiopathic chronic neck pain: Associations with cognition and pain modulation? *Human Brain Mapping*, 39(4), 1721–1742.
15. Coppieters, I., Meeus, M., Kregel, J., Caeyenberghs, K., De Pauw, R., Goubert, D., & Cagnie, B. (2016). Relations between brain alterations and clinical pain measures in chronic musculoskeletal pain: A systematic review. *The Journal of Pain*, 17(9), 949–962.
16. Goubert, D., Meeus, M., Willems, T., De Pauw, R., Coppieters, I., Crombez, G., & Danneels, L. (2018). The association between back muscle characteristics and pressure pain sensitivity in low back pain patients. *Scandinavian Journal of Pain*, 18(2), 281–293.
17. Malfliet, A., Coppieters, I., Van Wilgen, P., Kregel, J., De Pauw, R., Dolphens, M., & Ickmans, K. (2017). Brain changes associated with cognitive and emotional factors in chronic pain: A systematic review. *European Journal of Pain*, 21(5), 769–786.
18. De Pauw, R., Coppieters, I., Meeus, M., Caeyenberghs, K., Danneels, L., & Cagnie, B. (2017). Is traumatic and non-traumatic neck pain associated with brain alterations?: A systematic review. *Pain Physician*, 20(4), 245–260.
19. Coppieters, I., Cagnie, B., Nijs, J., Van Oosterwijck, J., Danneels, L., De Pauw, R., & Meeus, M. (2016). Effects of stress and relaxation on central pain modulation in chronic whiplash and fibromyalgia patients compared to healthy controls. *Pain Physician*, 19(3), 119–130.
20. Goubert, D., De Pauw, R., Meeus, M., Willems, T., Cagnie, B., Schouppe, S., Van Oosterwijck, J., Dhondt, E., & Danneels, L. (2017). Lumbar muscle structure and function in chronic versus recurrent low back pain: A cross-sectional study. *The Spine Journal*, 17(9), 1285–1296.
21. De Pauw, R. (2019). *The motor brain in chronic neck pain: The association between sensorimotor disturbances and brain alterations in a population of patients with chronic neck pain* [PhD thesis]. Ghent University.
22. De Meulemeester, K., Calders, P., Van Dorpe, J., De Pauw, R., Petrovic, M., & Cagnie, B. (2019). Morphological differences in the upper trapezius muscle between female office workers with and without trapezius myalgia: Facts or fiction?: A cross-sectional study. *American Journal of Physical Medicine & Rehabilitation*, 98(2), 117–124.
23. De Pauw, R., Coppieters, I., Caeyenberghs, K., Kregel, J., Aerts, H., Lenoir, D., & Cagnie, B. (2019). Associations between brain morphology and motor performance in chronic neck pain: A whole-brain surface-based morphometry approach. *Human Brain Mapping*, 40(14), 4266–4278.
24. Lenoir, D., De Pauw, R., Ickmans, K., Schumacher, C., Timmers, I., Kregel, J., & Coppieters, I. (2018). Validity and test–retest reliability of the dutch modified perceived deficits questionnaire to examine cognitive symptoms in women with chronic whiplash, chronic idiopathic neck pain, and fibromyalgia. *Pain Practice*, 18(7), 850–863.

25. Lenoir, D., De Pauw, R., Van Oosterwijck, S., Cagnie, B., & Meeus, M. (2020). Acupuncture versus sham acupuncture: A meta-analysis on evidence for longer-term effects of acupuncture in musculoskeletal disorders. *The Clinical Journal of Pain*, 36(7), 533–549.
26. De Pauw, R., Aerts, H., Siugzdaite, R., Meeus, M., Coppieters, I., Caeyenberghs, K., & Cagnie, B. (2019). Hub disruption in patients with chronic neck pain: A graph analytical approach. *Pain*.
27. Pas, R., Rheel, E., Van Oosterwijck, S., Foubert, A., De Pauw, R., Leysen, L., Roete, A., Nijs, J., Meeus, M., & Ickmans, K. (2020). Pain neuroscience education for children with functional abdominal pain disorders: A randomized comparative pilot study. *Journal of Clinical Medicine*, 9(6), 1797.
28. Willaert, W., Malfliet, A., Coppieters, I., Lenoir, D., De Pauw, R., Danneels, L., Roussel, N., Meeus, M., Cagnie, B., Nijs, J., et al. (2020). Does pain neuroscience education and cognition-targeted motor control training improve cervical motor output? Secondary analysis of a randomized clinical trial. *Pain Practice*, 20(6), 600–614.
29. De Pauw, R., Van Looveren, E., Lenoir, D., Danneels, L., & Cagnie, B. (2022). Reliability and discriminative validity of a screening tool for the assessment of neuromuscular control and movement control in patients with neck pain and healthy individuals. *Disability and Rehabilitation*, 44(1), 139–147.
30. MUKHTAR, N., MEEUS, M., DE PAUW, R., MOHAMMED, J., ORHAN, C., & CAGNIE, B. (n.d.). *The effectiveness of hands-off therapy in the management of patients with headache: A systematic review*.
31. Van Looveren, E., Cagnie, B., Coppieters, I., Meeus, M., & De Pauw, R. (2021). Changes in muscle morphology in female chronic neck pain patients using magnetic resonance imaging. *Spine*, 46(10), 638–648.
32. Taccone, F. S., Van Goethem, N., De Pauw, R., Wittebole, X., Blot, K., Van Oyen, H., Lernout, T., Montourcy, M., Meyfroidt, G., & Van Beckhoven, D. (2021). The role of organizational characteristics on the outcome of COVID-19 patients admitted to the ICU in Belgium. *The Lancet Regional Health–Europe*, 2.
33. Cruyt, E., De Vriendt, P., De Letter, M., Vlerick, P., Calders, P., De Pauw, R., Oostra, K., Rodriguez-Bailón, M., Szmalec, A., Merchán-Baeza, J. A., et al. (2021). Meaningful activities during COVID-19 lockdown and association with mental health in Belgian adults. *BMC Public Health*, 21(1), 1–15.
34. Mukhtar, N. B., Meeus, M., Gursen, C., Mohammed, J., De Pauw, R., & Cagnie, B. (2022). Effectiveness of hands-off therapy in the management of primary headache: A systematic review and meta-analysis (jan, 10.1177/0163278720983408, 2021). *EVALUATION & THE HEALTH PROFESSIONS*, 45(2), NP1–NP1.
35. Van Bogaert, W., Coppieters, I., Kregel, J., Nijs, J., De Pauw, R., Meeus, M., Cagnie, B., Danneels, L., & Malfliet, A. (2021). Influence of baseline kinesiophobia levels on treatment outcome in people with chronic spinal pain. *Physical Therapy*, 101(6), pzab076.
36. De Pauw, R., Coppieters, I., Kregel, J., Caeyenberghs, K., & Cagnie, B. (2017). Changes in morphology in brain regions implicated in motor control: An association with motor behavior in patients with chronic neck pain? *Musculoskeletal Science and Practice*, 28, e21.
37. Coppieters, I., Meeus, M., De Pauw, R., Caeyenberghs, K., Danneels, L., & Cagnie, B. (2016). Altered grey matter morphology of pain processing regions in traumatic and non-traumatic chronic neck pain patients: Relations with clinical pain measures? *Manual Therapy*, 100(25), e33–e34.
38. Coppieters, I., Cagnie, B., De Pauw, R., Danneels, L., Ickmans, K., & Meeus, M. (2016). Differences between traumatic and non-traumatic chronic neck pain patients: The role of central pain modulation, cognitive functioning and psychosocial characteristics. *Musculoskeletal Science and Practice*, 25, e71–e71.
39. De Pauw, R., Coppieters, I., Danneels, L., & Cagnie, B. (2016). Influence of kinesiophobia and symptoms of central sensitization on motor behaviour in patients with chronic neck pain. *Manual Therapy*, 100(25), e89.
40. Malfliet, A., De Pauw, R., Kregel, J., Coppieters, I., Meeus, M., Roussel, N., Danneels, L., Cagnie, B., & Nijs, J. (2019). Gender differences in the association of brain gray matter and pain-related psychosocial characteristics. *Pain Physician*, 22(4), E191–E203.
41. De Pauw, R., Coppieters, I., Aerts, H., Caeyenberghs, K., & Cagnie, B. (2016). Alterations in the motor network of patients with chronic neck pain: An exploratory graph theoretical analysis approach. *Manual Therapy*, 100(25), e70.
42. De Pauw, R., Dewitte, V., De Hertogh, W., Cnockaert, E., Chys, M., & Cagnie, B. (2021). Consensus among musculoskeletal experts for the management of patients with headache by physiotherapists? A delphi study. *Musculoskeletal Science and Practice*, 52, 102325.

43. Coppieters, I., Cagnie, B., De Pauw, R., Meeus, M., & Timmers, I. (2021). Enhanced amygdala-frontal operculum functional connectivity during rest in women with chronic neck pain: Associations with impaired conditioned pain modulation. *NeuroImage: Clinical*, 30, 102638.
44. Bilterys, T., Malfliet, A., Kregel, J., Coppieters, I., De Pauw, R., Meeus, M., Roussel, N., Cagnie, B., Danneels, L., & Nijs, J. (2018). PIJNEDUCATIE GECOMBINEERD MET COGNITIEGERICHTE MOTORISCHE CONTROLE TRAINING: EEN GERANDOMISEERDE STUDIE. *Symposium" Motion in Pain"*.
45. Triest, D., Geebelen, L., De Pauw, R., De Craeye, S., Vodolazkaia, A., Verbrugghe, M., Magerman, K., Robben, L.-L., Pannus, P., Neven, K., et al. (2021). Performance of five rapid serological tests in mild-diseased subjects using finger prick blood for exposure assessment to SARS-CoV-2. *Journal of Clinical Virology*, 142, 104897.
46. Mukhtar, N. B., Meeus, M., Gursen, C., Mohammed, J., De Pauw, R., & Cagnie, B. (2022). Pilot study on the effects of a culturally-sensitive and standard pain neuroscience education for hausa-speaking patients with chronic neck pain. *Disability and Rehabilitation*, 44(23), 7226–7236.
47. Lenoir, D., Cagnie, B., Verhelst, H., & De Pauw, R. (2021). Graph measure based connectivity in chronic pain patients: A systematic review. *Pain Physician*, 24(7), E1037.
48. Ghattas, J., Gorasso, V., De Pauw, R., Thunus, S., Speybroeck, N., & Devleesschauwer, B. (2022). The state of health in belgium, 1990–2019: A benchmarking analysis based on the global burden of disease 2019 study. *Archives of Public Health*, 80(1), 222.
49. Gorasso, V., Silversmit, G., Arbyn, M., Cornez, A., De Pauw, R., De Smedt, D., Grant, I., Wyper, G. M., Devleesschauwer, B., & Speybroeck, N. (2021). *The non-fatal burden of cancer in belgium, 2004–2018*.
50. Lenoir, D., Willaert, W., Ickmans, K., Bernaers, L., Nijs, J., Malfliet, A., Danneels, L., Leysen, L., De Pauw, R., Cagnie, B., et al. (2022). Are reports of pain, disability, quality of life, psychological factors, and central sensitization related to outcomes of quantitative sensory testing in patients suffering from chronic whiplash associated disorders? *The Clinical Journal of Pain*, 38(3), 159–172.
51. Gorasso, V., Silversmit, G., Arbyn, M., Cornez, A., De Pauw, R., De Smedt, D., Grant, I., Wyper, G. M., Devleesschauwer, B., & Speybroeck, N. (2022). The non-fatal burden of cancer in belgium, 2004–2019: A nationwide registry-based study. *BMC Cancer*, 22, 1–10.
52. De Pauw, R., Claessens, M., Gorasso, V., Drieskens, S., Faes, C., & Devleesschauwer, B. (2022). Past, present, and future trends of overweight and obesity in belgium using bayesian age-period-cohort models. *BMC Public Health*, 22(1), 1–14.
53. Lenoir, D., Willaert, W., Ickmans, K., Nijs, J., Cagnie, B., Meeus, M., Vonck, K., Delbeke, J., De Pauw, R., & Coppieters, I. (2022). Event-related potentials following cutaneous electrical stimulation in patients with chronic whiplash-associated disorders. *Pain Physician*, 25(3), E435–E448.
54. Smith, P., Proesmans, K., Van Cauteren, D., Demarest, S., Drieskens, S., De Pauw, R., Cornelissen, L., De Ridder, K., & Charafeddine, R. (2022). Post COVID-19 condition and its physical, mental and social implications: Protocol of a 2-year longitudinal cohort study in the belgian adult population. *Archives of Public Health*, 80(1), 151.
55. Pires, S. M., Wyper, G., Wengler, A., Peñalvo, J. L., Haneef, R., Moran, D., Cuschieri, S., Redondo, H. G., De Pauw, R., McDonald, S. A., et al. (2022). Burden of disease of COVID-19: Strengthening the collaboration for national studies. *Frontiers in Public Health*, 10, 907012.
56. Cnockaert, E., Cagnie, B., Meeus, M., Van Oosterwijck, J., & De Pauw, R. (2022). The presence of central sensitization in the continuum of migraine: A case control study. *Pain Science in Motion IV Congress 2022*.
57. Gorasso, V., Van der Heyden, J., De Pauw, R., Pelgrims, I., De Clercq, E. M., De Ridder, K., Vandevijvere, S., Vansteelandt, S., Vaes, B., De Smedt, D., et al. (2023). The health and economic burden of musculoskeletal disorders in belgium from 2013 to 2018. *Population Health Metrics*, 21(1), 1–10.
58. Debergh, H., Becker, P., Van den Eynde, C., Baert, F., D’hooge, E., De Pauw, R., Normand, A.-C., Piarroux, R., & Stubbe, D. (2022). P504 screening of belgian bats and hibernacula for the description of related fungal microbiomes and the detection of pseudogymnoascus destructans. *Medical Mycology*, 60(Supplement\_1), myac072P504.
59. Cnockaert, E., Smeets, R., Beckers, L., Meeus, M., De Pauw, R., & Van Oosterwijck, J. (2022). Feelings of fatigue, annoyance, anger and hostility are predictive for reductions in pain-related disability following a multidisciplinary rehabilitation program for chronic musculoskeletal pain. *IASP 2022*.

60. Scohy, A., De Pauw, R., Gorasso, V., Van den Borre, L., & Devleesschauwer, B. (2022). Years of life lost for 137 causes of death in belgium by age, sex, and region, 2004-2018. *European Journal of Public Health*, 32(Supplement\_3), ckac129–622.
61. Gorasso, V., Van derHeyden, J., De Pauw, R., Pelgrims, I., De Ridder, K., Vandevijvere, S., Vansteelandt, S., Vaes, B., De Smedt, D., & Devleesschauwer, B. (2022). Direct and indirect costs attributable to musculoskeletal disorders in belgium. *European Journal of Public Health*, 32(Supplement\_3), ckac130–049.
62. De Pauw, R., Claessens, M., Gorasso, V., Drieskens, S., Faes, C., & Devleesschauwer, B. (2022). Future trends of overweight and obesity in belgium using bayesian age-period-cohort models. *European Journal of Public Health*, 32(Supplement\_3), ckac131–209.
63. Gorasso, V., Van der Heyden, J., De Pauw, R., Pelgrims, I., De Ridder, K., Vandevijvere, S., Vansteelandt, S., Vaes, B., De Smedt, D., & Devleesschauwer, B. (2022). The burden of musculoskeletal disorders in belgium: A national population-based study. *European Journal of Public Health*, 32(Supplement\_3), ckac129–557.
64. Cavillot, L., Van Loenhout, J., Catteau, L., Van den Borre, L., De Pauw, R., Blot, K., Speybroeck, N., Devleesschauwer, B., & Hubin, P. (2022). COVID-19 vaccination uptake in belgium: Socioeconomic and sociodemographic disparities. *European Journal of Public Health*, 32(Supplement\_3), ckac129–046.
65. De Pauw, R. (2022). Methodological considerations when assessing the burden of disease due to injuries. *European Journal of Public Health*, 32(Supplement\_3), ckac129–633.
66. Bilterys, T., Van Looveren, E., Mairesse, O., Nijs, J., Meeus, M., Ickmans, K., Cagnie, B., Goubert, D., Willaert, W., De Pauw, R., et al. (2022). Predictors for physical activity and its change after active physical therapy in people with spinal pain and insomnia: Secondary analysis of a randomized controlled trial. *Brazilian Journal of Physical Therapy*, 26(6), 100456.
67. Scohy, A., Scohy, A., De Pauw, R., Gorasso, V., Van den Borre, L., & Devleesschauwer, B. (n.d.). *Abstract citation ID: ckac129. 622 years of life lost for 137 causes of death in belgium by age, sex, and region, 2004-2018.*
68. Taccone, F. S., Van Goethem, N., De Pauw, R., Wittebole, X., Blot, K., Van Oyen, H., Lernout, T., Montourcy, M., & Meyfroidt, G. (2020). *The lancet regional health-europe*.
69. Cavillot, L., Loenhout, J. A. van, Devleesschauwer, B., Wyndham-Thomas, C., Van Oyen, H., Ghattas, J., Blot, K., Van den Borre, L., Billuart, M., Speybroeck, N., et al. (2024). Sociodemographic and socioeconomic disparities in COVID-19 vaccine uptake in belgium: A nationwide record linkage study. *J Epidemiol Community Health*, 78(3), 176–183.
70. Cagnie, B., Chys, M., Meulenmeester, K. de, Pauw, R. de, Dewitte, V., Mukthar, N., & Meeus, M. (2021). *Evidence-based behandeling van hoofdpijn in de klinische praktijk: Hands-on versus hands-off*.
71. Cruyt, E., De Vriendt, P., De Geyter, N., Van Leirsberghe, J., Santens, P., De Baets, S., De Letter, M., Vlerick, P., Calders, P., De Pauw, R., et al. (2023). The underpinning of meaningful activities by brain correlates: A systematic review. *Frontiers in Psychology*, 14, 1136754.
72. Nguyen, H. T. K., Laura, C., Diego, C.-Z., De Pauw, R., Van Cauteren, D., Stefaan, D., Sabine, D., Devleesschauwer, B., De Ridder, K., Charafeddine, R., et al. (2023). *Association between SARS-CoV-2 variants and post COVID-19 condition: Findings from a longitudinal cohort study in the belgian adult population*.
73. Rodríguez-Bailón, M., Fernández-Solano, A. J., Vidaña-Moya, L., Merchán-Baeza, J. A., Cruyt, E., De Letter, M., Vlerick, P., Calders, P., De Pauw, R., Oostra, K., et al. (2023). The contribution of participation in meaningful activities on mental health during the COVID-19 lockdown in the spanish population. *Anales de Psicología/Annals of Psychology*, 39(2), 176–187.
74. De Pauw, R., Van den Borre, L., Baeyens, Y., Cavillot, L., Gadeyne, S., Ghattas, J., De Smedt, D., Jaminé, D., Khan, Y., Lusyne, P., et al. (2023). Social inequalities and long-term health impact of COVID-19 in belgium: Protocol of the HELICON population data linkage. *BMJ Open*, 13(5), e069355.
75. Muñoz Laguna, J., Puhan, M. A., Rodríguez Artalejo, F., De Pauw, R., Wyper, G., Devleesschauwer, B., Santos, J. V., & Hincapié, C. A. (2023). Certainty of the global burden of disease 2019 modelled prevalence estimates for musculoskeletal conditions: A meta-epidemiological study. *International Journal of Public Health*, 68, 1605763.
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## Projects

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### JA NCD Prevent, a EU-funded Joint Action

EU

- Pilot lead

Sciensano

2024

### NEED, a Belspo INFRA-FED project that aims to evaluate the unmet health-related needs in Belgium

BELSPO

- Co-supervisor

Sciensano

2023

### TELEHEALTH, a WEAVE project that aims to unravel the impact of telework on health

WEAVE-FWO-FNRS

- Co-supervisor

Sciensano

2023

### HELICON, a Belspo BRAIN-be project that aims to unravel the social inequalities and the long-term and indirect health effects of the COVID-19 crisis in Belgium

BRAIN-BELSPO

- Coordination

Sciensano

2021

### Vitaal en gezond telewerken

GEZOND LEVEN

- Writing

Ghent University

2021

### BeBoD: Belgian Burden of Disease study

LIFESTYLE AND CHRONIC DISEASES

- Coordination

Sciensano

2021

### Seroprevalence surveillance among Belgian blood donors

INFECTIOUS DISEASES

- Supervisor

Sciensano

2020

## Teaching

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2022    Advanced Shiny Course

Sciensano

2020    Basic R course

Sciensano

2018    Introduction to statistics for the manual therapist

Breederode

Hogeschool

2018    Advanced statistics for the manual therapist

Breederode

Hogeschool

2017 -    Evidence-Based Medicine and Statistics I

Ghent University

2017 -    Evidence-Based Medicine and Statistics III

Ghent University

## Presentation (first author)

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2015	Does cervical muscle morphology changes in chronic neck pain patients? – a systematic review	Belgian Back Society
2015	Changes in brain morphology in patients with traumatic and non-traumatic neck pain.	European Congress for Manual Therapy
2015	Are morphological alterations in patients with chronic neck pain associated with motor control?	EFIC
2016	Changes in morphology in brain regions implicated in motor control: an association with motor behavior in patients with chronic neck pain?	IFOMPT
2016	Discontinuation in the motor network of patients with chronic neck pain: An exploratory graph analysis approach.	Faculty Research Day
2016	Influence of kinesiophobia and symptoms of central sensitization on motor behaviour in patients with chronic neck pain	IFOMPT
2016	Alterations in the motor network of patients with chronic neck pain: An exploratory graph theoretical analysis approach.	IFOMPT
2016	From research to manual practice.	Mathera
2016	Exercise Therapy Neck Pain.	Kinekring Deinze
2017	Are central neuroplastic alterations of brain morphology involved in chronic neck pain?	OHBM
2017	Is traumatic and non-traumatic neck pain associated with brain alterations? - a systematic review	Pain Science in Motion
2018	Manipulation of the brain in patients with chronic whiplash associated disorders: role of the manual therapist	University Valencia
2021	Rise of R in public health research institute	Rmeetup
2022	Projecting the prevalence of overweight and obesity with a Bayesian APC model	European Public Health Conference
2022	Determining the disease burden of injuries: methodological considerations	European Public Health Conference
2023	Tackling barriers in disease burden estimates of injuries	European Public Health Conference
2024	The use of INLA as alternative to MCMC in epidemiological regression models: case studies from the Belgium national burden of disease study	SBED Conference

## Memberships and associations

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2013	Member of the Spine Research Unit Ghent. Dept. of Rehabilitation Sc.	Ghent University
2016	Member of the education committee of the MSc. In Statistical Data analysis	Ghent University
2014	Member of the Alumni REVAKI	Ghent University
2020	Member of EU COST ACTION - CA18218 - European Burden of Disease Network	European Research Council
2020	Section Editor Archives of Public Health - Physical activity	Archives of Public Health
2021	Member of R USER GROUP	Sciensano
2022	Member of the scientific committee of the Dept. of Rehabilitation Sc.	Ghent University

## International stays

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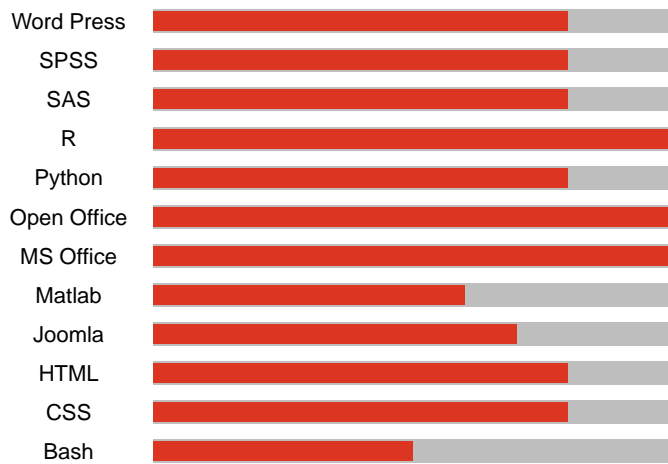
2016	International teacher's week, Seinäjoki University of applied sciences	Finland
2018	Research stay at University of Birmingham	United Kingdom
2022	International meet-up on NCD - research day	Germany

2018	The role of fatty infiltration and cross sectional area of the cervical muscles in patients with chronic neck pain - Lins Pieter and Pattyn Niels	Ghent University - Rehabilitation
2014	De ontwikkeling van een testprotocol voor het onderzoeken van veranderingen in spierfunctie en -structuur bij patiënten met chronische idiopathische nekpijn en patiënten met chronische whiplash associated disorders - Servaas Breyne	Ghent University - Rehabilitation
2021	The presence of central sensitization in episodic and chronic migraine patients - a pilot study - Braem Liese-Lotte, Chaoui Meriem and Claeys Larissa	Ghent University - Rehabilitation
2017	Clinical assessment of neuromuscular control in patients with neck pain and healthy controls: Are the Craniocervical Flexion Test and Scapular Holding Test reliable measurements? - Margo De Nys and Fien De Schrijver	Ghent University - Rehabilitation
2021	What are the risk factors for developing a first episode of migraine? - Obe Spillebeen, Maike Timmerman, and Lotte Timmermans	Ghent University - Rehabilitation
2017	How to make the right decision for neck pain patients regarding physiotherapy? Critical factors for each dysfunction pattern. - Deboiserie Lieze and Defrancq Josephine-Charlotte	Ghent University - Rehabilitation
2019	Determination of clinical characteristics for classifying nonspecific neck pain patients based on the dominant pain mechanism - a cross-sectional study. - Maaïke Smessaert and Lien Van Heesvelde	Ghent University - Rehabilitation
2021	Cross-sectional study - Disrupted brain networks in patients with chronic neck pain - Nagels L., Place L., and Van Driessche K.	Ghent University - Rehabilitation
2021	The correlation between white matter and motor function - Judith Luca and Josien De Vleeschauwer	Ghent University - Rehabilitation
2019	Effect of a tailored physiotherapy treatment program compared to usual care in patients with headache: a pilot study focusing on headache diaries. - Beeuwsaert Frédéric, De Middeleer Hannes, and De Pelsemaeker Johannes	Ghent University - Rehabilitation
2019	Clinical decision making in patients with headache Which clinical algorithm suits the patient better? - Melissa Reynvoet, and Janie Schepens	Ghent University - Rehabilitation
2020	Consensus on the most effective treatment strategies for patients with tension-type headache, migraine and cervicogenic headache - A Delphi study. - Hannelore De Beule, Caro De Cuyper, and Fien De Cuyper	Ghent University - Rehabilitation
2016	Potential structural alterations in the brain associated with chronic neck pain: The influence on motor outcome? - Hanne Mahieu and Loes Meulepas	Ghent University - Rehabilitation
2019	Are morphological cervical muscle changes associated with central pain measures found in chronic neck pain patients? A case-control study. - Gert Bosschaert, Elien De Witte and Samuel Halsberghe	Ghent University - Rehabilitation
2019	From clinical indicators to therapeutic approach in the conservative treatment of headache - a first-staged delphi survey - Brian Bartholomeus, Martijn Callens, and Jakob Marcou	Ghent University - Rehabilitation
2018	Which role does csa and fat infiltration of cervical musculature play in patients with chronic neck pain? - Axelle Bossuyt and Lara Bonneure	Ghent University - Rehabilitation
2018	Determination of clinical characteristics predictive for classifying nonspecific neck pain patients based on dominant pain mechanisms - a cross-sectional cohort study - Aurélie Defreyne and Sander Denolf	Ghent University - Rehabilitation
2020	Reliability of a physiotherapeutical test-battery in patients with headache and healthy controls - cross-sectional study	Ghent University - Rehabilitation
2020	Risk factors predicting the transformation of episodic to chronic tension-type headache - Anna Pringiers, Mathilde Pringiers, and Marie Vandeputte	Ghent University - Rehabilitation
2021	Modeling of COVID-19 data: can we foresee the near future? - Vinoth Ram Rajendran	Ghent University - Statistical data analysis
2022	Understanding and projecting the impact of musculoskeletal complaints with age-period-cohort models. - Tijmen Saeys	Ghent University - Statistical data analysis
2022	Understanding and projecting the impact of musculoskeletal disorders with age-period-cohort models. - Capwell Forbang Echo	Ghent University - Statistical data analysis
2023	Projecting the burden of non-communicable diseases to the year 2030 - a microsimulation modelling study - Laura Surdiacourt	Ghent University - Statistical data analysis
2023	Health and economic impact of heart failure in Belgium - Antonio Barrenechea Pulache	Antwerp University - Epidemiology

# Professional skills

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## PROGRAMMING AND STATISTICS



## LANGUAGES

Language	Reading	Speaking	Writing
Dutch	+++++	+++++	+++++
English	+++++	+++++	+++++
French	++++	+++	++++
German	++	+	+