



# Robby De Pauw

SENIOR RESEARCHER

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## General information

- **Name:** Robby De Pauw
- **Date of Birth:** 25/07/1990
- **Place of Birth:** Asse
- **Nationality:** Belgian
- **Private address:** 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

### Sciensano

SENIOR RESEARCHER

Belgium

2020 -

### Ghent University

POST-DOCTORAL RESEARCH ASSISTANT

Belgium

2020 -

### Breederode Hogeschool

TEACHER STATISTICS

Netherlands

2018 -

### Independent

STATISTICAL CONSULTANT

Belgium

2018 -

### Ghent University

RESEARCH ASSISTANT

Belgium

2013 - 2019

### Independent

PHYSIOTHERAPIST - MANUAL THERAPIST

Belgium

2013 - 2018

## Publications

1. Gorasso, Vanessa and Silversmit, Geert and Arbyn, Marc and Cornez, Astrid and De Pauw, Robby and De Smedt, Delphine and Grant, Ian and Wyper, Grant M. A. and Devleesschauwer, Brecht and Speybroeck, Niko. (2022). The non-fatal burden of cancer in Belgium, 2004–2019 : a nationwide registry-based study. *BMC Cancer*, 22(1), 10. <http://dx.doi.org/10.1186/s12885-021-09109-4>
2. Triest, D., Geebelen, L., Pauw, R. D., Craeye, S. D., Vodolazkaia, A., Verbrugghe, M., Magerman, K., Robben, L.-L., Pannus, P., Neven, K., Ramaekers, D., Gucht, S. V., Dierick, K., Loon, N. V., Goossens, M. E., & Desombere, I. (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. <https://doi.org/10.1016/j.jcv.2021.104897>
3. De Pauw, R., Dewitte, V., Hertogh, W. de, 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, 8. <http://dx.doi.org/10.1016/j.msksp.2021.102325>
4. Mukhtar, N. B., Meeus, M., Gursen, C., Mohammed, J., De Pauw, R., & Cagnie, B. (2021). Effectiveness of hands-off therapy in the management of primary headache: A systematic review and meta-analysis. *Evaluation and the Health Professions*.
5. Lenoir, Dorine and Cagnie, Barbara and Verhelst, Helena and De Pauw, Robby. (2021). Graph Measure Based Connectivity in Chronic Pain Patients: A Systematic Review. *PAIN PHYSICIAN*, 24(7), E1037–E1058.
6. 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., Fernández-Solano, A. J., Vidaña-Moya, L., & Van de Velde, D. (2021). Meaningful activities during COVID-19 lockdown and association with mental health in belgian adults. *BMC PUBLIC HEALTH*, 21, 15. <http://dx.doi.org/10.1186/s12889-021-10673-4>
7. 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. others. (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, 100019.
8. VL, E., B, C., I, C., M, M., & R, D. P. (2020). Changes in muscle morphology in female chronic neck pain patients using magnetic resonance imaging. *Spine*. <https://doi.org/10.1097/brs.0000000000003856>

9. Pauw, R. D. (2020). 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*. <https://doi.org/10.1080/09638288.2020.1760948>
10. Pauw, R. D., Pas, R., Rheel, E., Oosterwijck, S. V., Foubert, A., Pauw, R. D., 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*. <https://doi.org/10.3390/jcm9061797>
11. Pauw, R. D. (2020). Hub disruption in patients with chronic neck pain. *PAIN*. <https://doi.org/10.1097/j.pain.0000000000001762>
12. Willaert, W., Malfliet, A., Coppieters, I., Lenoir, D., De Pauw, R., Danneels, L., Roussel, N., Meeus, M., Cagnie, B., Nijs, J., & Kregel, J. (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.
13. Pauw, R. D., & Pauw, R. D. (2019). HUB DISRUPTION IN PATIENTS WITH CHRONIC NECK PAIN: A GRAPH ANALYTICAL APPROACH. In *EFIC Congress 2019 - Pain in Europe XI*. <https://doi.org/10.26226/morressier.5d4434d506f5c40fc448233a>
14. 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*.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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*.
21. 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*.
22. 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.
23. 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.
24. Dewitte, V., De Pauw, R., Danneels, L., Bouche, K., Roets, A., & Cagnie, B. (2018). The interrater reliability of a pain mechanisms-based classification for patients with nonspecific neck pain. *Brazilian Journal of Physical Therapy*.

25. 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. *Spine Journal*, 17(9), 1285–1296.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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. *Journal of Pain*, 17(9), 949–962.
37. 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.
38. Goubert, D., Meeus, M., Willems, T., De Pauw, R., Coppieters, I., Crombez, G., & Danneels, L. (2016). Is there a relationship between muscle characteristics and pain mechanisms in low back pain : An explorative study. *Back to Specific Low Back Pain : 8th Biennial Congress of the Belgian Back Society : Programma/Programme and Abstracts*, abstract P13:52–abstract P13:52.
39. 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.
40. 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*.
41. De Pauw, R., Coppieters, I., Kregel, J., De Meulemeester, K., Danneels, L., & Cagnie, B. (2015). Does muscle morphology change in chronic neck pain patients?–a systematic review. *Manual Therapy*.

42. 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.
43. 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.
44. 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*.

## Projects

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### **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**

Sciensano

BRAIN-BELSPO

2021

- Coordination

### **Vitaal en gezond telewerken**

Ghent University

GEZOND LEVEN

2021

- Writing

### **BeBoD: Belgian Burden of Disease study**

Sciensano

LIFESTYLE AND CHRONIC DISEASES

2021

- Coordination

### **Seroprevalence surveillance among Belgian blood donors**

Sciensano

INFECTIOUS DISEASES

2020

- Principle Investigator

## Teaching

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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 Univeristy
2017	Evidence-Based Medicine and Statistics III	Ghent Univeristy

## 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 kinesiphobia 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

## Memberships and associations

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2013	Member of the Spine Research Unit Ghent. Dept. of Rehabilitation	Ghent Univeristy
2016	Member of the education committee of the MSc. In Statistical Data analysis	Ghent Univeristy
2014	Member of the Alumni REVAKI	Ghent Univeristy
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

## International stays

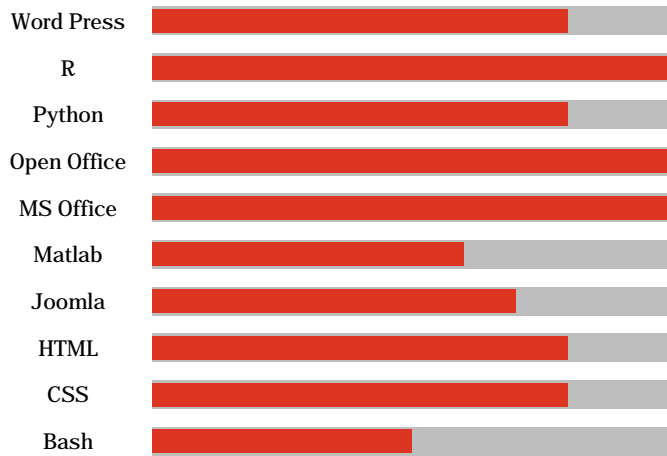
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2016	International teacher's week, Seinäjoki University of applied sciences	Finland
2018	Research stay at University of Birmingham	United Kingdom

# Professional skills

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## PROGRAMMING AND STATISTICS



## LANGUAGES

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