



(Paul) Christian van der Zalm

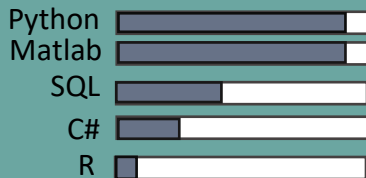
"Computational thinking; the bridge to innovation." Driven by problem solving and analytical thinking. I like to work in an interdisciplinary team, where broad backgrounds work together towards a specific goal. I believe that computational thinking, empathy and the scientific method are the corner stones of innovation.

Personal

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Programming languages



Skills

- Computational thinking
- Interdisciplinary teamwork
- Data Visualisation
- Research

2023 - now

Work and Internships

Lab manager of the Biomechanical department at TUDelft.
Managing the hardware, software and data storage of three different laboratories.

2021 - 2023

Research Master Project at Sensorimotor and Robotics Lab at the Neuroscience Department of Erasmus MC
Studying standing balance in humans using a Robotic Balance Simulator. Thesis title: *"The effect of age and vision on adaptive motor learning during standing balance."* Proposal Presentation (Grade: 9.1).

2020 - 2021

Bachelor End Project at Badura lab at the Neuroscience Department of Erasmus MC
Writing a script for performing data analysis on behaviour data. Co-writing a paper (see Publications). Thesis title: *"Implementing linear discriminant analysis to identify core in a murine autism model."* (Grade: 8.5)

Software experience

- Adobe Photoshop
- Pytorch
- Git
- Blender



2021 - 2023

Education

Research Master Neuroscience at Erasmus Medical Centre
Courses about the complexity of the brain, combined with a research internship (See Internships).

2020 - 2021

Minor Computer science at TU Delft
Python based programming minor, with some C#. Included courses: Introduction to Python (9.2), Software Engineering Methods (9), Algorithms and Data Structures (8) and Data Analysis (7.2).

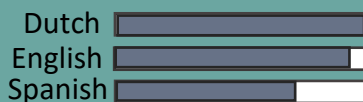
2016 - 2021

Bachelor Nanobiology at TU Delft and Erasmus University Rotterdam
Studying biology on its smallest scale using the language of physics and mathematics.

2010-2016

Erasmiaans Gymnasium NT & NG (Rotterdam)
End project *"The exoskeleton for the human body"*: Calculating and designing a 3D model of a hydraulic powered exoskeleton for the arm. (Grade: 10)

Languages



Hobby's

- Singing
- Playing piano & bass
- Composing music
- Cooking

References

Available on request

[LinkedIn](#)



2023

Rasman, B., **Van der Zalm, C.**, Forbes, P. *Advanced age slows learning to balance with imposed sensorimotor delays independent of vision (still in publication process)*

2021

Serra, I., Manusama, O. R., Kaiser, F. M., Floriano, I. I., Wahl, L., **Van der Zalm, C.**, . . . Badura, A. (2021). *Activated pi3kδ syndrome, an immunodeficiency disorder, leads to sensorimotor deficits recapitulated in a murine model.* doi:10.1101/2021.01.15.426862



Extra-curricular Activities

2023	Poster presentation at the Dutch Neuroscience Meeting in Tiel.
2022-present	Playing in a progressive rock band (instagram).
2023	Working as a paid extra in the national opera production “Don Quichot” of Opera2Day.
2017 - 2021	Working as a paid performer in the music group “A la Carte”.
2017 - 2022	Following singing lessons and playing various productions in the opera group JaJaOpera.
2018, 2019, 2023	Following a music improvisation course in Spanish in Spain (summer course).
2008 - 2016	Following theatre classes and playing various productions at the theatre institution Hofplein Rotterdam.
2015	Accompanying a production of an adaptation of “La Traviata” as paid pianist.
2015	Participating in the international debating project: Erasmian European Parliamentary Debate (EPPD).
2014 and 2015	Winning best debater at the debaters project Erasmian European Parliament (EEP) of 2014 and being chair of a committee during the EEP of 2015 .