(Paul) Christian van der Zalm

Portfolio

Personal

10-01-1998
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"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.

Programming languages

Python
Matlab
SQL
C#
R

Skills

- o Computational thinking
- o Data Visualisation
- o Interdisciplinary teamwork
- o Research

Software experience

- o Adobe Photoshop
- o Git
- o Blender

Languages

Dutch
English
Spanish

Hobby's

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

References
Available on request

LinkedIn

Work and Internships

2023 - now

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)

Education

2021 - 2023
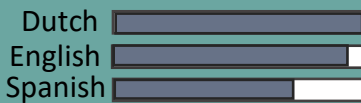
Research Master Neuroscience at Erasmus Medical Centre
Courses about the complexity of the brain, combined with a research internship (See Internships).

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)

Publications

2023

Rasman, B. G., **van der Zalm, C.,** *& Forbes, P. A. (2023). Age-related impairments and influence of visual feedback when learning to stand with unexpected sensorimotor delays. Frontiers in Aging Neuroscience, 15.*
https://doi.org/10.3389/ fnagi.2023.1325012

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 (EEPD).
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 .