



J.P.M. (Jordi) Willemsen, MSc

Date of birth: 4-12-1999
Nationality: Dutch (NL)

Profile

I am an enthusiastic microbiologist (MSc), with a BSc background in biotechnology. Throughout my studies and past projects, I have developed affinity and interests for fundamental environmental microbiology, as well as for applied “green” microbiology (e.g. wastewater treatment processes). My main current interests concern the activity and functional organization of microorganisms on a (sub)cellular level, particularly microbial metabolism and biochemistry. As part of the research group of Dr. Julia Kurth, I will be further developing my research skills in this field, while working on the subject of methoxydrotrophic archaea. Aimed biochemical research focuses include enzyme kinetics, substrate specificities and 3D-structural studies.

Education & certificates

- September 2020-Sept. 2022:** Radboud University Nijmegen (RU), MSc specialization in microbiology. GPA: 8.3, Cum Laude awarded (‘with distinction’)
- September 2017-August 2020:** Wageningen University & Research (WUR), BSc in biotechnology. GPA: 7.6
- August 2011-August 2017:** Stedelijk Gymnasium Nijmegen (Dutch high school at ‘VWO’ level, DE equivalent: Abitur).
- 2016:** Cambridge ESOL Certificate in Advanced English

Research experience: Internships and Projects

- January 2023-Present:** Research position as a PhD candidate at the group of Dr. Julia Kurth (Microbial Physiology Lab, Philipps-Universität Marburg), with a research focus on the (energy) metabolism and biochemistry of methoxydrotrophic archaea.
- August 2022-September 2022:** Theoretical work, writing and defending a research proposal on microbiome-facilitated detoxification of plant toxins in the gut of the green shield bug *Nezara viridula* (graded with a 9.0/10 score).
- January 2022-July 2022:** MSc internship at Biothane (subsidiary of Veolia Water Technologies) on the application of a methanogenic, anaerobic ‘EGSB’ reactor system and an aerobic MBBR reactor for effluent post-treatment (graded with a 8.0/10). Developed skills: independent operation, maintenance and monitoring of lab-scale bioreactors; inspection and characterization of granular sludge.
- November 2021-December 2021:** Theoretical work, writing of a review article on the microbial ecology (diversity, community development and functional traits) of marine plastic-associated biofilms (graded with a 8.5/10 score).
- February 2021-November 2021:** MSc research project at Radboud University, department of ecological microbiology (RIBES). I worked on membrane proteomics in the anammox-bacterium *Kuenenia stuttgartiensis* (graded with a 9.0/10 score). Developed skills: SDS-PAGE, immunoblotting, MALDI-TOF-MS, LC-MS/MS, big dataset processing in RStudio.

Contact details

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Email

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LinkedIn

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Languages

Dutch (native speaker)
English (advanced/C1)
French (basic/B1)

General skills

Microsoft Office: ●●●●●

Scripting (*R* & *Python*): ●●●○○

Teamwork: ●●●●○

Independent work: ●●●●●

Decision-making: ●●●○○

Time management: ●●●●○

Data analysis: ●●●●○

Hobbies

Making music → teamplayer
Sailing → Coordination and (nautical) leadership

March 2020 – July 2020: BSc thesis research project in collaboration of the WUR chair-group Host-Microbe Interactomics (HMI) and NIZO food research. The research topic concerned ‘Adaptive evolution of *Lactococcus lactis* on highly dynamic conditions’ (graded with an 8/10 score). Theoretical project due to COVID-restrictions.