

# William Verstraeten

MA 2 MASTER OF LIFE SCIENCES

Lausanne, Switzerland

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## Education

### MA 3 Master of Life Sciences

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

- With a focus on biomedical engineering, bio-sensors and molecular engineering

Lausanne, Switzerland

Sep. 2020- present

### Bachelor degree in Nanobiology with Cum Laude

TU DELFT & ERASMUS UNIVERSITY ROTTERDAM

- Graduated with 8.7/10 average

Delft & Rotterdam , Netherlands

Sep. 2017- Jul. 2020

### Exchange Programme in Singapore

NATIONAL UNIVERSITY OF SINGAPORE

- Specialization in Nanobiology

Singapore

Aug. 2019 - Feb. 2020

### High School student diploma in Latin and Mathematics

ONZE-LIEVE-VROUW INSTITUUT

- Profile Latin with a specialization in Mathematics

Sint-Genesius-Rode, Belgium

2011-2017

## Projects

### Lab immersion in The laboratory of biomedical microfluidics (LBMM)

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

- Building a microfluidic system for anti-cancer drug screening:

Lausanne, Switzerland

Sept. 2021- Jan. 2022

### Team Captain for the SenSwiss team in the 2021 SensUs competition

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

- Developing a biosensor aimed at the rapid quantification of Hemagglutinin-1 concentration in saliva.
- Obtained the first place during the SensUs 2021 Analytical performance event, and second place for translational potential.

Lausanne, Switzerland

Jan. 2021- Sept. 2021

### Lab immersion in BioNanoPhotonic Systems Laboratory

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

- Adapting the nanoparticle-enhanced plasmonic gold nanohole array sensing to salivary body fluids as well as developing and building of a microfluidic cartridge to decrease time of detection.

Lausanne, Switzerland

Jan. 2021- July 2021

### Bachelor End Project

TU DELFT

- Studying the influence of plating density on mouse embryonic stem cell survival and differentiation into neural precursors.

Delft & Rotterdam , Netherlands

Feb. 2020- July 2020

### Honours Program TU Delft (completed 7 extra ECTS)

TU DELFT

- Extracurricular program for students looking for a challenge over and above what their curriculum offers. Includes: interdisciplinary courses and developing in-depth knowledge of highly technical subjects.

Delft & Rotterdam , Netherlands

Feb. 2017- July 2020

## Experience

### Teaching assistant

DELFT UNIVERSITY OF TECHNOLOGY

- Teaching assistant for second year university Physics and Nanobiology students during tutorials on thermodynamics and programming. Learn advanced teaching skills in an advanced course.

Delft, Netherlands

Apr. 2020- May 2020

### French Teacher

FRENCH LANGUAGE ACADEMY

- Taught students from 11 up to 18 years old. Learned important teaching skills in a multicultural environment.

Singapore

Sep. 2019- Nov. 2019

### Cohecie external commissioner and vice-president

DELFT UNIVERSITY OF TECHNOLOGY

- Contact companies abroad in order to organise trips to their labs for Nanobiology students. Mastered communication and organisational skills for big events.

Delft, Netherlands

2018-2019

## Skills

- Soft Skills** Working in a interdisciplinary team, flexibility, delegation
- Programming Languages** Python, MATLAB, R, ImageJ,  $\LaTeX$
- Languages** French (native), Dutch (native), English (C2)