



William P.T.M. van Doorn

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PERSONAL STATEMENT

A committed and motivated PhD-candidate in Clinical Chemistry. Main fields of interest are (bio)chemical and biological laboratory techniques, clinical studies, programming and machine learning. Extremely passionate about applying artificial intelligence and deep learning into (laboratory) medicine.

EMPLOYMENT HISTORY

08/2017 – Present

PhD candidate | Central Diagnostic Laboratory, Maastricht UMC+, Maastricht (NED)

03/2018 – 06/2018

Visiting PhD student | Biochemistry & Proteomics research group, Clarkson University, Potsdam (USA)

09/2015 – 07/2017

Student assistant | Central Diagnostic Laboratory, Maastricht UMC+, Maastricht (NED)

05/2016 – 07/2016

Research assistant | Department of Cardiology, Jeroen Bosch Ziekenhuis, Den Bosch (NED)

10/2015 – 02/2016

Master intern | Department of Cardiothoracic Surgery, Maastricht UMC+, Maastricht (NED)

08/2014 – 06/2015

Bachelor intern | Central Diagnostic Laboratory, Maastricht UMC+, Maastricht (NED)

11/2013 – 02/2014

Bachelor intern | Department of Pathology Erasmus MC, Rotterdam (NED)

EDUCATION

10/2015 – 08/2017

Master of Science, Biomedical Sciences | Maastricht University, Maastricht (NED)

Thesis Title: *In vitro* development of a highly innovative hypoxia specific biomarker using 2-nitroimidazoles

09/2011 – 07/2015

Bachelor of Science, Chemistry | Avans University of Applied Science, Breda (NED)

Thesis Title: Detection and characterization of posttranslational modifications of cardiac troponin T after onset of myocardial infarction

PROFESSIONAL DEVELOPMENT

- Multiple (online) Coursera courses regarding data science, artificial intelligence and machine learning
- Several clinical chemistry courses including transfusion & haemostasis, hematology and endocrinology
- Mass spectrometry courses including quantitative analysis of proteins and peptides, practical mass spectrometry and data analysis

ADDITIONAL SKILLS

- **Software and data analysis:** extensive knowledge on Windows and Linux operating systems. Experienced user with full Office package, GraphPad, SPSS.
- **Informatics:** experienced programmer in Python, Java and R. Limited experience in several other programming languages such as C, C++, Perl, Ruby.
- **Data science:** experience with machine and deep learning in Python using libraries PyTorch, TensorFlow and Keras. Implementation of these algorithms into clinical systems.
- **Laboratory skills:** experience with broad spectrum of laboratory techniques including biochemical, cell biological and pathological. Possessing animal course certificates.
- **Teaching, tutoring and presenting:** limited teaching/mentoring experience with first- and second-years bachelor students.

PUBLICATIONS

van Doorn W, Vroemen WH, de Boer D, Mingels AM, Bekers O, Wodzig WK, Meex SJ. Clinical laboratory practice recommendations for high-sensitivity cardiac troponin testing. J Lab Precis Med 2018;3:30.

Streng A, de Boer D, **van Doorn W**, Kocken J, Bekers O, Wodzig W. Cardiac troponin T degradation in serum is catalysed by human thrombin. Biochemical and Biophysical Research Communications. 2016;481(1-2):165-168.

Streng A, de Boer D, **van Doorn W**, Bouwman F, Mariman E, Bekers O et al. Identification and Characterization of Cardiac Troponin T Fragments in Serum of Patients Suffering from Acute Myocardial Infarction. Clinical Chemistry. 2016;63(2), 563–572.

van der Linden N, Hilderink JM, Cornelis T, Kimenai DM, Klinkenberg LJ, **van Doorn W**, Meex SJ et al. Twenty-four hour biological variation profiles of cardiac troponin I in subjects with or without chronic kidney disease. Clinical Chemistry. 2017;63(10):1655-1656.

AWARDS

Kootstra fellowship, PhD-grant | Cardiovascular Research Institute Maastricht, Maastricht (NED)

Title: Cardiac troponin 2.0: development of a hypoxia-specific troponin assay

Awarded: €25.000

De Gouden Spatel, BSc-thesis grant | Royal Dutch Chemical Association (KNCV), Utrecht (NED)

Title: Posttranslational modifications of cardiac troponin T after acute myocardial infarction

Awarded: €500

PROFESSIONAL MEMBERSHIPS

Member | Royal Dutch Chemical Association (KNCV) | 2014 – present

Member | Dutch Association of Clinical Chemistry (NVKC) | 2016 – present

REFERENCES ON REQUEST