

Roel MATTHYSEN

PERSONAL DATA

PLACE AND DATE OF BIRTH: Mortsel, Belgium | 08 January 1991
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WORK EXPERIENCE

Current SEPT 2013	(Post)doctoral Researcher at KU LEUVEN <i>Dept. Computer Science, Numerical Analysis section</i> Developed new, fast algorithms for function approximation, with applications in simulation of differential equations. Published in leading peer-reviewed journals and presented at international scientific conferences. Taught classroom exercise sessions, and guided students in robotics-oriented group projects.
2012	Summer Intern at MAGWEL, Leuven Compared the effectiveness of different preconditioners for large scale linear algebra systems, in MATLAB and C++.
2009-2010	Summer Job at KU LEUVEN, <i>Dept. Mechanical Engineering</i> Designed and implemented motion recognition software in MATLAB

EDUCATION

MARCH 2018	Doctor of Science in ENGINEERING: Computer Science, KU Leuven Thesis: “Introducing Redundancy into Numerical Computations” Advisor: Prof. Daan HUYBRECHS Thesis Publication list
JULY 2013	Master of Science in ENGINEERING: Applied Mathematics, KU Leuven <i>magna cum laude (82.13 %)</i> Thesis: “Korobov’s algoritmes voor roosterrijen” Advisor: Prof. Dirk NUYENS
JULY 2011	Bachelor of Science in ENGINEERING: Electrical Engineering, KU Leuven <i>magna cum laude (78.58 %)</i> , minor: Computer Science

LANGUAGES

DUTCH: Mothertongue
ENGLISH: Fluent
FRENCH: Basic Knowledge

COMPUTER SKILLS

Advanced Knowledge: JULIA, MATLAB, \LaTeX , Emacs
Basic Knowledge: PYTHON, C++, JAVA, LINUX, bash, git, HTML, EXCEL