Geert Kapteijns

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EDUCATION

2015 - 2017 University of Amsterdam — MSc Physics and Astronomy: Theoretical Physics (Thesis on tensor network methods in condensed matter theory, supervised by Dr. P. Corboz). Expected to graduate July 2017.

2014 - 2015 University of Amsterdam — MSc Software Engineering (Thesis: Light-weight tools for clustering and classification by file compression, supervised by Prof. Dr. J. van Eijck)

2011 - 2014 University of Amsterdam — BSc Physics and Astronomy (GPA 8.4. Extracurricular: Algebra I, Algebra II, Topology)

2011 High school: Barlaeusgymnasium — Science profiles (cum laude)

EMPLOYMENT

2013 - present   Teaching assistant, University of Amsterdam
Tutorials for introductory courses in Calculus and Linear Algebra in the Physics and Astronomy bachelor.

2013 - present   Cofounder, RubyProg
RubyProg develops and teaches introductory programming courses at high schools and universities. We've taught the UvA summer school in computer programming in 2014 and 2015, and several introductory courses at various high schools in the Amsterdam area. In addition, RubyProg has developed several medium-scale web applications.

2011 - 2013   Developer of course materials, night school teacher in high school physics, WisMon

PROGRAMMING SKILLS

Python 36 ECTS of coursework (BSc and MSc Physics and MSc Software Engineering). Member of the SciPost.org development team (Django).

MATLAB MSc Physics thesis (tensor networks and variational optimization). 6 ECTS of coursework in BSc Physics.

Ruby Web development, development of course material

Mathematica 12 ECTS of coursework in BSc and MSc Physics

C 6 ECTS of coursework in BSc Physics

Haskell, JavaScript, Rascal, SQL   Coursework for MSc Software Engineering or personal interest