

## PERSONAL INFORMATION

### Simon Benjamin Hengeveld

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## EDUCATION

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February 2021 - Present

### PhD Computer Science

IRISA, University of Rennes 1, France

*Methods and algorithms for the determination of biological structures in the context of the Distance Geometry Problem (DGP).*

September 2018-  
September 2020

### Master in Computing Science (Data Science)

Universiteit Utrecht, The Netherlands

Thesis: Solving the Art Gallery Problem in Iterations

September 2014 -  
September 2017

### Bachelor in Computer Sciences (IT)

Universiteit Utrecht, The Netherlands

August 2013 - May 2014

### Study Abroad Year

Juniata College, United States.

▪ Fullbright Scholarship

## PUBLICATIONS

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December 2021

### An optical processor for matrix-by-vector multiplication: an application to the distance geometry problem in 1D

Journal of Optics, Volume 24, Number 1

<https://doi.org/10.1088/2040-8986/ac3a9e>

December 2021

### A study on the impact of the distance types involved in protein structure determination by NMR

IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2021)

<https://doi.org/10.1109/BIBM52615.2021.9669336>

September 2021

### On the Representation of Human Motions and Distance-based Retargeting

<https://doi.org/10.15439/2021F45>

16th Conference on Computer Science and Intelligence Systems (FedCSIS 2021)

June 2021

### A Practical Algorithm with Performance Guarantees for the Art Gallery Problem

<https://doi.org/10.4230/LIPIcs.SoCG.2021.44>

The 37th International Symposium on Computational Geometry (SoCG 2021)

## EXPERIENCE

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November 2017-May 2018

### Software Engineer at Paragin

Development on Remindo Toets: Exam software

May 2013 - Present

### Various Web Programming at different businesses

Transparant Leiden (Netherlands), Innovators Lab (Netherlands), Lambrechtpros (USA)

<http://www.transparant-leiden.nl/>

<http://www.transparant-next.nl/>

## COMPUTER SKILLS

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Web Programming

PHP 4/5, HTML 5, CSS3, JavaScript, Smarty Template, Codelgniter

Software and Mobile Programming	Python, C#, C++, CGAL, Java, Perl, Unix Shell Scripting, Prolog, Haskell, R, Android Development
Databases	MySQL, SQLite, Relational Databases
Office Tools	Microsoft Office™ tools

#### PERSONAL SKILLS

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Mother tongue	Dutch
Other language(s)	English*, German, Spanish (B1)
	*Bilingual Education in high school, graduated with an International Baccalaureate (IB)