

Wessel P.J. van Woerden

Ridderhoflaan 87 – 2396 CL - Koudekerk aan den Rijn – Netherlands

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Born in Koudekerk aan den Rijn, Netherlands, on Mar. 8, 1995. Dutch nationality.

Education

Centrum Wiskunde & Informatica (CWI) <i>PhD</i> Supervised by Léo Ducas.	Amsterdam 2018–now
Centrum Wiskunde & Informatica (CWI) <i>Internship</i> Master Thesis: Perfect Quadratic Forms. Supervised by Léo Ducas.	Amsterdam 2017–2018
Leiden University <i>Master Mathematics, with highest honor</i> Algebra, Geometry and Number Theory	Leiden 2016–2018
Leiden University <i>Double bachelor Mathematics and Computer Science, with highest honor</i> Thesis: The closest vector problem in cyclotomic lattices. Supervised by Léo Ducas.	Leiden 2013–2016
Leiden University <i>Pre-University College</i> Final project: The study of water-splitting catalysis as a route to renewable fuel. Supervised by Robin Purchase.	Leiden 2011–2013
Groene Hart Lyceum <i>VWO Gymnasium</i>	Alphen aan den Rijn 2007–2013

Scientific Publications

The closest vector problem in tensored root lattices of type A and in their duals

Léo Ducas, Wessel P.J. van Woerden

Design, Codes and Cryptography (January 2018, Volume 86, Issue 1, pp 137–150)

[Arxiv](#).....

An upper bound on the number of perfect quadratic forms.

Wessel P.J. van Woerden

arXiv preprint arXiv:1901.04807 (2019).

Talks given

Challenges in Enumerating Perfect Quadratic Forms.

Invited by Prof. Dr. Achill Schürmann at Universität Rostock

2018

Canonical Functions.

Student Seminar at CWI

2019

A tight analysis of the Iterative Slicer to solve the Closest Vector Problem.

Student Seminar at CWI

2019

A tight analysis of the Iterative Slicer to solve the Closest Vector Problem.

Invited by Prof. Dr. Damien Stehlé at ENS Lyon

2019

Experience

Vocational.....

CWI

PhD Student

Amsterdam

2018–now

Job Motion

Student Assistant Leiden University

Leiden

2017–2018

Course: Besliskunde A, Besliskunde B, Quantum Algorithms

Skills

Programming: C/C++, CUDA, SageMath, Python, JavaScript, PHP, SQL, LaTeX, git

Web development: Server and Database setup, maintenance and optimization

Languages: Dutch (native), English (fluent)

Interests

Sport: Tennis and Cycling

Competitive Programming: Participated in several coding competitions (teams of 3)

Detailed achievements:

- Catalyst Coding Competition Global - Hyperloop Metro - 2017
 - First place of over 600 teams globally.
- BAPC Preliminaries Leiden University
 - 2015: 3rd. 2016: 1st. 2017: 1st.
- BAPC (Benelux Algorithm Programming Contest)
 - 2015: 7th. 2016: 7th. 2017: 7th.
- NWERC (Northwestern Europe Regional Contest)
 - 2015: 65th. 2016: 24th. 2017: 19th.
- Ultrahack 2017 Sprint I
 - First prize for best student team.

Competitive Mathematics:

- Contests on several universities
- International Mathematics Competition for University Students 2017
 - Silver medal.