

Ruben Wiersma

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I am a second-year PhD student in computer graphics at the TU Delft. My interests include rendering, geometry processing, machine learning, and art. I have gathered experience as a [programmer](#), graphic designer, and filmmaker during my undergraduate years. You can find some examples of [on my portfolio](#).

SKILLS AND QUALITIES

Strong math understanding • Ability to understand and analyze complex systems • Eye for clean, maintainable, and understandable code ([example project](#)) • Creative thinking • Presentation and communication ([example presentation](#)) • Determination • C++ • Python • Linux • macOS • Blender • Adobe CC • Piano

EDUCATION

[2019 - present] PhD Computer Graphics

TU Delft Supervised by Elmar Eisemann, Klaus Hildebrandt and Joris Dik

- Studying applications of computer graphics and machine learning for painting analysis.
- Studying fundamentals and applications of geometric deep learning.
- Additional responsibilities: lecturing, lab assistance, creating assignments.
- Toolkit: C++, OpenGL, Python, PyTorch.

[2017 - 2019] MSc Computer Science *Cum Laude* (GPA 4.0)

TU Delft

- Focus on computer graphics and machine learning.
- Thesis (grade 9/10) “Harmonic Surface Networks” [[PDF download](#)].
- Toolkit: C++, Python, PyTorch.

[2014 - 2017] BSc Computer Science *Cum Laude* (GPA 4.0)

TU Delft

- Focus on multimedia and data science.
- Thesis on “Automating Valuations for Real-Estate” [[PDF download](#)].

[2013 - 2014] Propedeuse Industrial Design Engineering *Cum Laude*

TU Delft

EXPERIENCE

[2019] Teaching Assistant

TU Delft

- Developed assignments for new datamining and Machine Learning courses and lab assistance.
- Toolkit: Python, Jupyter, NumPy

[2017] Development Internship

GeoPhy

- End-to-end machine learning solution for estimating real-estate value.
- Toolkit: Scala, Apache Kafka.

[2012 - present] Video producer, graphic designer

Wiersma Brothers, Torchbearers International, freelance

- Wiersma Brothers: founder, producing video's and short films.
- Torchbearers International: creative director and web development. View [samples of my work](#).
- Freelance work in graphic design and web development.

[2008-2010] Programmer

GoPublic

- Back-end developer for websites and and business administration webapps.
- Toolkit: PHP, JavaScript, HTML.

VOLUNTEERING

[2013 - 2019] Committee member, committee chair

C.S.R. Delft, The Veritas Forum Delft

- Organised academic debat and events for society anniversary.
- Produced several narrative short films.
- Produced, designed and organised the presentation event for an anniversary book.

[2014 - 2017] Restaurant staff manager, PR

Happietaria, Hartige Samaritaan

Happietaria is a pop-up restaurant for charity, lasting one month. Hartige Samaritaan is a variant that is organised with Refugees.

- Managed the restaurant staff for the Happietaria (November 2014), which raised €78.913.
- Communications manager for Hartige Samaritaan (February 2017).

PUBLICATIONS

[SIGGRAPH '20] CNNs on Surfaces using Rotation-Equivariant Features

July 2020

[Heritage Science] Revealing unique inscriptions of a Nazi collaborator in Doodencel 601 of the Oranjestad

July 2020

[SIGCSE '20] Are We Consistent? The Effects of Digitized Exams Grading

February 2020

[Master's thesis] Harmonic Surface Networks

October 2019

GRANTS

Google Cloud Research credits

October 2019, October 2020