

# Ruben Wiersma

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I am a second-year PhD student in computer graphics at the TU Delft. My interests include geometry processing, animation, simulation, and machine learning. 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

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### [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

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### [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**

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### **[2020 - present] SIGGRAPH Committee member**

*Research and career development committee*

- Organizing conference coffee event (social event) at SIGGRAPH '21.
- Creating and maintaining committee website.

### **[2020 - present] Reviewer**

*ACM Transactions on Graphics, Pacific Graphics*

### **[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.
- Organized several academic debates and hosted lectures (20-200 audience members).

### **[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).
- Together with all the volunteers for Happietaria, raised €78.913.
- Communications manager for Hartige Samaritaan (February 2017).

## **PUBLICATIONS**

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### **[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 Oranjehotel

July 2020

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

February 2020

[Master's thesis] Harmonic Surface Networks

October 2019

## GRANTS

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Google Cloud Research credits

October 2019, October 2020

## TALKS

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17th May 2021, Utrecht University

Lecture on applications of computer graphics to painting analysis for bachelor students in art history.

27th September 2020, PI Lab TU Delft

Seminar talk: applications of computer graphics to painting analysis.

14th May 2020, Stanford Guibas Lab

Invited talk: CNNs on Surfaces using Rotation-Equivariant Features

July 2020, SIGGRAPH

Technical papers presentation: CNNs on Surfaces using Rotation-Equivariant Features