

# Ruben Wiersma

[rubenwiersma@gmail.com](mailto:rubenwiersma@gmail.com) • +316 278 799 30 • Delft, The Netherlands • [rubenwiersma.nl](http://rubenwiersma.nl)



I am a second-year PhD student at the TU Delft. My interests include geometry processing, machine learning, storytelling and art. I have gathered experience as a [programmer](#), graphic designer, filmmaker and teacher during my undergraduate years. You can find some examples of [that work 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 • Cheerful • C++ • Python • Linux • macOS • Blender • Adobe CC

## EDUCATION

---

### [2019 - present] PhD Candidate

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

- Studying applications of computational geometry, graphics, and machine learning for painting analysis.
- Teaching 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 “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.
- Assistance to students during lab sessions.
- 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 festivities for society anniversary
- Produced several narrative short films
- Produced, designed and launched anniversary book

### **[2014 - 2017] Restaurant staff manager, PR**

*Happietaria, Hartige Samaritaan*

Pop-up restaurant for charity lasting one month. Hartige Samaritaan was set up together 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**

---

### **[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*