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### Modelling flow-induced vibrations of gates in hydraulic structures

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## Curriculum vitae

Christiaan Erdbrink, born on April 11<sup>th</sup> 1980  
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### Education

- 1999 – 2007 Delft University of Technology: Civil Engineering  
MSc with honours in Environmental Fluid Mechanics
- 2000 – 2002 University of Amsterdam: Mathematics and Statistics  
completed most first and second year courses
- 1998 – 1999 The University of Edinburgh: Engineering and Mathematics  
Winner of Horsburgh prize for mathematics
- 1992 – 1998 Gymnasium Haganum, The Hague: pre-university education

### Employment

- 2011 – 2014 University of Amsterdam and Saint Petersburg National Research University  
of Information Technologies, Mechanics and Optics  
PhD student Computational Science
- 2007 – 2011 Deltares  
Adviser/researcher at department of River Engineering until 2010,  
after that department of Harbour, Coastal and Offshore Engineering

### Experience

- 2006 Leibniz-Institut für Gewässerökologie und Binnenfischerei (IGB) in Berlin  
Field measurement campaign in Spree River as part of MSc
- 2005 Dredging contractor Van Oord NV in Dubai, U.A.E.  
Internship. Study on stability of reclamations at The World project
- 2005 Black Sea Coastal Association, Bulgaria.  
Coastal morphology study for beach enhancement in Varna

As part of the PhD, I presented my work at several scientific conferences, taught English and evolutionary computing and reviewed papers for scientific journals. At Deltares, formerly WL|Delft Hydraulics, I worked as an engineering consultant and researcher on numerous hydraulic engineering projects (also as project leader), among which the design of the third set of locks in the Panama Canal and I co-organised the 2008 NCR conference for river studies. As a student in Delft, I was active at the Delftsch Studenten Corps in various positions for which I received grants. Also, between 2002 and 2006 I worked as a guide at the Rijkswaterstaat information center at the Maeslant storm surge barrier. Languages: Dutch (mother tongue), English, German, Russian.