

Elena QUEIROLO

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Rustenburgstraat 351-1
1072GS – Amsterdam, NL

27 years old (25/07/1990)
Italian



Education

- KIT, Karlsruhe, Germany
 - validating eigenvalues of Laplacian in curved domain, twice 1 week 12.2017-01.2018
- Université Laval, Quebec City, Canada
 - rigorous validation of Hopf bifurcations, 1 months 11.2016-12.2016
- VU, Vrije Universiteit Amsterdam
 - PhD project on rigorous numerics and periodic orbits 09.2014-(12.2018)
- WIAS, Weierstrass Institute for Applied Analysis and Stochastics
 - Master project on isogeometrical analysis for Navier-Stokes equations 02.2014-06.2014
- EPFL, Swiss Federal School of Engineering, Lausanne, Switzerland
 - Master in Computational Science and Engineering 2012-2014
- Università degli Studi di Torino, Torino, Italy
 - Bachelor in Mathematics 2009-2012
 - Bachelor project on Navier-Stokes equations
- Universität Potsdam, Potsdam, Germany
 - Exchange student in Mathematics, one semester 2011-2012

Work Experience

- VU, Vrije Universiteit Amsterdam 2015-2016
 - Member and PR of ProVU, dealing with PhD rights and organisation, 2h/week, 1 year
- VU, Vrije Universiteit Amsterdam 2015-2016
 - Teaching Assistant, numerous bachelor classes in numerics and dynamics, 3h/week
- Simon Fraser University, Vancouver, Canada 2015
 - Teaching Assistant, PIMS-SFU summer school in rigorous computing, full-time, 1 month
- ONERA, Office National d'Etudes et de Recherches Aéronautiques, Toulouse, France 2013
 - setting an a posteriori error estimate on a finite element code, full-time, 3 months
- Università degli Studi di Torino, Torino, Italy 2010-2011
 - Assistant of Analysis for disabled students course, 3h/week, 1 semester

Distinctions

- NDNS+ PhD travel grant (3400 EUR) 2016
- selected for Alpha Class Spring School 2011
 - mathematical school for the 30 best math students in Piedmont

Attended conferences

- Llavefest: a broad perspective on finite and infinite dimensional dynamical systems (FIDDS-17), Barcelona, Spain, June 2017
- Rigorous Numerics for Infinite Dimensional Nonlinear Dynamics, Banff, Alberta, Canada, May 2017
 - Presentation: Validated continuation and Hopf bifurcations in ODEs
- SIAM Conference on Applications of Dynamical Systems, Snowbird, USA, May 2017
 - Presentation: Rigorous Continuation of Periodic Orbits and Validation of Hopf Bifurcations
- 14th Workshop on Interaction between Dynamical Systems and Partial Differential Equations (JISD2016), Barcelona, Spain, July 2016
 - Presentation and poster: Computer assisted proofs of periodic orbits for ODEs

- Computational Proofs for Dynamics in PDEs, Leiden, Netherlands, June 2016
 - Presentation: Validation of periodic solutions and branches for polynomial ODEs
- SIAM Conference on Applications of Dynamical Systems, Snowbird, USA, May 2015
 - Poster: Automatic validation of periodic orbits

Languages

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| • Italian | Mother tongue |
| • English | C2 |
| • French | C2 comprehension and speaking, C1 writing |
| • Dutch | B1 |
| • German | B1 – Erasmus and master project in Germany |