Education	
10/2015 - now	 PhD Student Applied Mathematics (Marie-Curie Fellowship), University of Bologna Topic: 'Analytical and computational improvements on risk assessment', supervised by Prof. Andrea Pascucci and Prof. Cornelis W. Oosterlee Project: 'WAKEUPCALL - 'Mathematical and computational issues in finance and insurance in the wake of the crisis', a Marie-Curie Industrial Doctorates and Horizon2020 project
09/2013 - 09/2014	Master Quantitative Finance (Honours Track, 84ECTS), VU University Amsterdam • Thesis: 'Implications of collateral agreements for derivative pricing', <i>Grade: 8.5/10</i> • Average Master: 8/10
09/2010 - 07/2013	Bachelor Applied Mathematics, Delft University of Technology • Minor: Finance, Average Minor: 8.5/10 • Thesis: 'The pricing of Asian options on baskets of futures', Grade: 8.5/10 • Average Bachelor: 7.5/10
	Work experience
01/2017 - now	Research intern in NIER Ingegneria, Bologna, Italy • Topic: 'Analytical and numerical methods for computing systemic risk in interconnected networks of banks'
09/2016 - 11/2016	Visiting PhD student, Delft University of Technology & CWI Topic: 'Convolutional neural networks applied to time series forecasting', supervised by Prof. Cornelis W. Oosterlee and Sander M. Bohte
04/2015 - 09/2015	 Analyst - Data Science & Analytics, Accenture Large Finance Transformation project at leading global Oil & Gas company; responsibilities included implementing changes in the financial consolidation system used for reporting, analytics and data modelling; performing data cleansing, conversion and validation; assisting and working with the client
12/2014 - 02/2015	 Intern - M&A, NIBC Bank Performing financial modelling and valuation (e.g. multiples analysis, DCF analysis, operating model); conducting sector research, analysing companies, preparing pitch books and company profiles in several sectors (incl. Utilities, Retail)
01/2013 - 07/2013	Intern, CWI Amsterdam (16hrs/week) Researched, developed and implemented various efficient models for pricing Asian options on baskets of futures
09/2012 - 07/2013	Teaching assistant, Delft University of Technology (5hrs/week) • Assisted second and third year students (group of 100) in numerical mathematics and partial differential equations

Publications

Peer-reviewed journals

- A. Borovykh, C.W. Oosterlee, A. Pascucci, Pricing Bermudan options under local Lévy models with default, Journal of Mathematical Analysis and Applications 450 (2017) 929–953
- A. Borovykh, C.W. Oosterlee, A. Pascucci, *Efficient XVA computation under local Lévy models*, Forthcoming in SIAM Journal on Financial Mathematics (2017)
- A. Borovykh, C.W. Oosterlee, S. Bohte, *Dilated convolutional neural networks for time series forecasting*, Forthcoming in Journal of Computational Finance (2017)

Conference proceedings

- A. Borovykh, S. Bohte, C.W. Oosterlee, *Conditional time series forecasting with convolutional neural networks*, Lecture Notes in Computer Science, Springer (2017) 729
- A. Borovykh, C.W. Oosterlee, A. Pascucci, *Bermudan option valuation under state-dependent models*, Proceedings in Mathematics and Statistics, Springer (2017) 128–138

In review

 A. Borovykh, A. Pascucci, S. La Rovere, A mean-field model of interbank lending with self-exciting shocks, Preprint (2017)

Talks and poster presentations

Invited talks	
May 2016	SIAM Student Computational Finance Day 2016, Delft University of Technology
June 2016	Second International Congress on Actuarial Science and Quantitative Finance, Cartagena, Colombia
Contributed talks	
January 2017 September 2017	XVIII Workshop on Quantitative Finance, Milan, Italy 2nd International Conference on Computational Finance, Lisbon, Portugal
September 2017	2nd international Conference on Companional I mance, Disbon, I ortugui

December 2017 Quantitative Methods in Finance Conference (QMF) 2017, Sydney, Australia

Poster presentations

September 2017 International Conference on Artificial Neural Networks 2017, Alghero, Sardinia, Italy

Grants and Awards

PhD funded by the Marie-Curie, Horizon2020 and European Industrial Doctorates fellowship (2015-2018)

Computer Skills

Python (libraries include Theano, SciPy, Tensorflow), Matlab/Octave, CUDA, C#, Maple/Mathematica, R

Languages

Dutch, English (TOEFL IBT 2012, score 115), Russian Italian, French, German Fluent:

Basic: