

Renata Correia

Personal information

Van Embdenstraat 1062 | 2628ZP Delft, NL

Date of birth: 09 September 1989

Nationality: Brazilian

Gender: Female

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<https://renatacorr.github.io>

LinkedIn



Education

MAR 2014	M.Sc in Water Resources Engineering - Area: Mathematical modelling applied to fluid dynamics and hydraulics
MAR 2016	Federal University of Parana (UFPR) Curitiba - Brazil, with <i>Graduate Research Fellowship (CNPq)</i>
FEV 2010	B.Sc in Environmental Engineering
OCT 2013	Federal University of Parana (UFPR) Curitiba - Brazil
AGO 2012	Exchange period (Visiting Student)
FEV 2013	The University of Sheffield, Sheffield - United Kingdom, with <i>Research Fellowship from Science Without Borders (SWB-CNPq)</i>

Complementary Education (certified)

2018	Sediment Transport Modelling by <i>U.S. Army Corps of Engineers (USACE)/Brasília, BRA</i>	(40h)
2017	Hydrodynamics of Environmental Systems (Delft 3D) by <i>Federal University of Parana (UFPR)/Curitiba, BRA</i>	(45h)
2017	Geomorphology by <i>U.S. Army Corps of Engineers (USACE)/Brasília, BRA</i>	(40h)
2016-2017	Numerical Modelling (1D/2D) by <i>U.S. Army Corps of Engineers (USACE)/Brasília, BRA</i>	(80h)
2016	Flow measurements with Acoustic Doppler Current Profiler (ADCP) by <i>Federal University of Parana (UFPR)/Curitiba, BRA</i>	(45h)

Professional experience

OCT 2014 - NOV 2018 **Transport and Infrastructure Institute of Technology (ITTI) - Federal University of Parana (Curitiba -Brazil)**

2016-2018 **Research Engineer**

- Performed studies of river and coastal modelling (flood risk, droughts, saltwater intrusion, coastal development), presenting modelling results, delivering presentations and attending conferences;
- Developed a mathematical and econometric forecast method for cargo trading for the Brazilian Waterborne Agency (ANTAQ) leading to a subsequent partnership with private ports;
- Coordinated a Port Environmental Impact Assessment in Brazil, leading to additional environmental plans and connections to the Institute.

2014-2016 **Graduate intern**

Participated in the Feasibility Studies of Paraguay River Waterway (field surveys; dredging projects and numerical modelling for water levels and sediment transport), where I achieved strong skills in adaptability, commitment and a solution-oriented mindset.

Internships

MAR 2013 **LACTEC - R&D Institute (Curitiba - Brazil)**

OCT 2013 **Intern**

- Model setup and data assembly for a flooding system alert in Rio Grande Watershed through a cooperation between Deltares and CEMIG/LACTEC;
- Spatial data analysis for environmental mapping in GIS.

JUL 2011 **Federal University of Parana (Curitiba - Brazil)**

JUL 2012 **Undergraduate Researcher**

Project related to the sedimentation sludge processes for storage tanks designs in Wastewater Treatment Plants (WTP). Performed field surveys, technical reports and scientific publishing.

Technical skills

CFD	DELFT 3D; HEC-RAS;	<i>Hydrodynamic and coastal modelling (saltwater intrusion)</i>
CAD/GIS	ArcGIS; QGIS; AutoCAD;	<i>General spatial analysis and representation</i>
Programming	Python; LaTeX, HTML	<i>Data analysis, visualization and manipulation</i>
Office	MS Office	<i>Project, team and resources management</i>

Languages

Portuguese	Native	
English	Advanced level proficiency	CEFRC1
Spanish	Working level proficiency	CEFRB2
Dutch	Beginner level (attending course)	CEFRA1

Selected Presentations and Publications *(more publications on [Researchgate](#))*

Presentation	Regulatory practices, competitive advantages and supply chain between the countries of Paraguay-Parana Waterway agreement of fluvial transport. Paraguay-Parana Waterway Seminar. Brazilian Waterborne Agency Seminar (ANTAQ). Brasília, DF - Brazil (2018)
Magazine article	Ratton, E.; Zibetti, R. A.; Waydzik, F.A.; Correia, R. Regulatory practices, competitive advantages and supply chain between the countries of Paraguay-Parana Waterway agreement of fluvial transport. Anuario Hidrovías del Mercosur. (2017)
Paper	Waydzik, F.A.; Guarneri, H.; Correia, R.; Ratton, P.; Tomas, G. P. Definition of area of influence for cargo transportation and logistics corridors applied to the case study of the Paraguay-Parana Waterway. 27 ^o National Congress of Waterway Transportation, Naval and Offshore Construction. (2018)

Interests and Hobbies

- 1 Hydraulics, Fluid dynamics, Morphodynamics; (rivers, estuaries, deltas); Waterway designs;
- 2 Coastal development/management; Climate adaptation; Port infrastructure planning;
- 3 Numerical modelling; Statistics; Object oriented programming; Data analysis;
- 4 Cooking; Cinema; Sci-fi; Kitesurf and water sports; Woodwork.

References

Dr Jörgen Leeuwestein (Dutch/English)

Senior Economic Officer - Embassy of Kingdom of the Netherlands in Brazil, Brasília, DF
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Dr-Ing. Tobias Blenginger (English/German)

Professor - Federal University of Parana (UFPR), Curitiba, Brazil
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Dr Eduardo Ratton (English)

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