Marylin Uchasara

Civil Engineer

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DOB: December 02, 1992

Education

2018–present **Master in Civil Engineering**, *Geo Materials - Structures, Ecole Polytechnique de Lille, France.*
2017–2018 **Master in Mechanical**, *Fluid Mechanics, University Paris Saclay, France.*
2009–2014 **Bachelor in Sciences**, *Civil Engineering, National University of Engineering, Peru.*

Appointments

2016 – 2017 **National University of Engineering**, *Teaching assistant, Department Sciences, Faculty of Civil Engineering.*
2016 **Association of Hydraulic and Environmental Engineers of Peru APIHA**, *Member.*
2015 **9th Symposium on River, Coastal and Estuarine Morphodynamics RCEM**, *Committee member.*

Publications

Uchasara M. (2017), *"Predicción de la demanda de transporte público en intersecciones viales mediante redes neuronales"*, NATIONAL UNIVERSITY OF ENGINEERING, *Thesis, 2017.*

Castillo L., Uchasara M. (2014), *"Tendencias numéricas actuales para el tránsito de la onda de flujo: ruptura de presa de relaves"*, XII CONGRESS HYDROLOGY AND XXVI HYDRAULICS LATIN AMERICAN - HIDROLATAM 2014.
ID 502, Santiago, Chile.

Research and Work Experience

May 2018 – Aug 2018 **Internship in fluid dynamics**, UNIVERSITY OF SOUTHAMPTON - ENGLAND.
Based on previous research, that successfully applied the study of equilibrium of beach profiles based on thermodynamic principles. The project aims to use similar tools in the study of quasi-equilibrium bed forms (e.g. sand dunes) present in natural open channels. Wrote VBA code to compile and summarize a large body using an empirical formulation for bed load transport and complemented by the development of a user-friendly Excel app.

March 2016 – Aug 2017 **Assistant professor**, NATIONAL UNIVERSITY OF ENGINEERING - PERU.
Assistant professor at faculty of civil engineering, in the following courses: numerical methods, digital programming, mathematics, linear algebra.

Jan 2015 – May 2015 **Junior Engineer**, GERENCIA DE TRANSPORTE URBANO - PERU.
Evaluation and consultation of technical studies on the Transport transit and control of the data processing.Responsible of the codes in C++ and VBA-Excel, data assimilation, and simulation

Feb 2015 – March 2015 **Junior Engineer**, ECSA ENGINEERS - PERU.
The field of the hydraulics and coastal, in the terminal port project : Chancay, Paracas, Salaverry. Dispersion of sediments by dredging operations

Dec 2013 – March 2014 **Traineeship Engineer**, PCR RIZZO ASSOCIATE PERU S.A.
The field of the hydrology and hydraulics, in the project of the risk assessment of disaster and vulnerability in the climate change, and development of the risk profile by flood of the bridge on the river Chillon.

Dec 2012 – March 2013	**Engineer Assistant**, PCE Engineering Latin America - Peru. The field of hydrology and in the field of the drainage, in the Drainage project of "Carretera Santiago de los Caballeros/San Juan de Maguana" Dominican Republic. Lima, Peru.

Training Courses and Workshops

Sep 2016	**Course uni, bi, three - dimensional modeling of flow water area multi-phase and water sediments**, XXVII Latin American Congress of Hydraulics. Lima, Peru
Sep 2015	**Course of 2D and 3D Modeling of Flow and Bed Morphodynamics using TELEMAC**, 9th Symposium on River, Coastal and Estuarine Morphodynamics RCEM. Iquitos, Peru
Aug 2015	**Course international CREAR-ED-SPA**, international research consortium crear. Hydrology, environmental engineering, programming, river works, hydraulics. Iquitos, Peru
June 2015	**Mini-hydraulic and micro hydraulics, virtual workshop**, ceddet foundation. Lima, Peru
Jan 2015	**Fluid dynamics summer school**, university of chile. Introduction to boundary layer theory, inverse problems affect mechanics, internal waves among others. Santiago, Chile
Sep 2014	**Course in modeling river with hydraulic model Iber 2.0.3**, flumen research institute of Polytechnic University of Catalonia. Lima, Peru
March 2014	**Course analysis in digital applications in hydraulic engineering with Matlab**, National Agrarian University La Molina. Lima, Peru

Awards and distinctions

2018	**Erasmus+ Scholarship** , Mobility of students for internship purposes between program countries , *United Kingdom*.
2016	**"Alberto Benavides de la Quintana" Scholarship** , Embassy of France and patronage National University of Engineering (ProUNI) , *France*.
2015	**URAP-UNI Mathematics Olympiad** , placed 3rd Russian Government.

Software

Pre and post-processors for environmental modelling: Qgis, ArcGIS, Hec-RAS, Hec-HMS,HCanales, Iber 2.0, Telemac2D, CCH2D, River2D, Flo-2D

Fortran, Python, Matlab, C++, R, Excel-VBA

Wolfram Mathematica 10.4, LaTeX

Microsoft Office, AutoCAD Civil 3D

Languages

Spanish : Native Speaker

French : Intermediate

English : Basic - Intermediate