
CURRICULUM VITÆ – MANUEL FERNANDO CORTEZ

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Date of birth July, 1st 1987, in Quito (Ecuador)

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69007 Lyon, France (06.52.37.75.69)

CURRENT POSITION

December 2011- present PhD student in the Team PDEs and Analysis at the “Institut Camille Jordan”
Supervisor : Lorenzo Brandolese (ICJ)
Thesis Mathematical : *Finite time blowup of solutions of dispersive and semilinear parabolic equations*
solutions of semilinear parabolic equations

EDUCATION

2010-2011 Máster en Investigación Matemática (M2)
(Master’s Degree in Mathematics)
University Complutense de Madrid
Thesis : *PDEs in Moving Time Dependent Domains*
Advisor : Aníbal Rodríguez-Bernal (DMA)

2005-2008 Licence Sciences, Technologies, Santé mention *Mathématiques*
(Bachelor’s Degree in Mathematics)
University Jean Monnet, Saint Etienne, France

2005 High school diploma in science
Lyceo Martin Heidegger, Quito - Ecuador

FELLOWSHIPS, RESEARCH PROJECTS

December 2011-2015 • Ph.D. fellowship
Secretaría Nacional de Educación Superior, Ciencia, Tecnología e Innovación (SENESCYT), Ecuador

2014-2017 • Non-permanent member of the project ANR Blanc DYFICOLTI :
Dynamique des fluides, Couches Limites, Tourbillons et Interfaces.
Worn by David Lannes(ENS Paris)

PUBLICATIONS

PUBLISHED OR ACCEPTED

1. L. Brandolese, M. F. Cortez. *Blowup issues for a class of nonlinear dispersive wave equations*
J. Diff. Equ. **256**, Issue 12, June 2014, p. 3981-3998.

2. L. Brandolese, M. F. Cortez. *On permanent and breaking waves in hyperelastic rods and rings*
J. Funct. Anal 266, Issue 12, June 2014, p. 6954-6987.
3. M. F. Cortez , A.Rodríguez-Bernal. *PDEs in Moving Time Dependent Domains Without Bounds : A Scientific Canvas of Nonlinearity and Complex Dynamics*.
Springer Berlin Heidelberg, 2013. p. 559-577.

PREPRINTS

1. M. F. Cortez. *Blow-up for the b-family of Equations*

PRESENTATIONS AND CONFERENCE

LECTURES PRESENTED

- **March 2015**, University Claude Bernard Lyon 1 (France), *Formation de singularités pour des équations d'ondes en eaux peu profondes*, Séminaire des Doctorants, ENSL, ICJ et UCB.
- **February 2015**, University Complutense de Madrid(Spain), *Blowup issues for water wave propagation in shallow water*, Seminario de Doctorandos de Matemática.
- **December 2014**, University d'Evry Val d'Essonne(France), *Blowup issues for water wave propagation in shallow water*, Séminaire de recherche dans l'équipe d'Analyse et Probabilités.
- **August 2013**, University Central(Ecuador), *Finite time blowup of solutions of parabolic equations*, Seminario de investigacion Núcleo de Investigadores, Universidad Central del Ecuador.

ATTENDING

- **March 2015**, Nantes (France), *Young French Applied Mathematicians Meeting*.
- **January 2015**, Rennes (France), *Free surface and geophysical flows*.
- **October 2014**, Lyon (France), *Mathematics of Fluid Dynamics*.
- **June 2014**, Strasbourg (France), *Participation in "SEME", an exchange week between University and Industry*.
- **June 2014**, Roscoff (France), *Journée EDPs 2014*
- **January 2014**, Paris (France), *Launch meeting of the project ANR Blanc DYFICOLTI*
- **June 2013**, Biarritz (France), *Journée EDPs 2013*
- **October 2012**, Porquerolles (France), *Math Flows 2012*
- **April 2011**, Huesca (Spain), *Escuela Análisis Funcional y Aplicaciones*

RESEARCH ACTIVITIES AND VISITS

october 2012 - present	Member Amarun, Ecuadorian group of scientists
December 2013	University d'Evry Val d'Essonne(one week) invited by D. Chamorro (UEVE)

TEACHING EXPERIENCES

MASTER LEVEL

- **2014** Institut National des Sciences Appliquées(INSA), Département Génie Electrique (Lyon-France).
Teacher Assistant : Exercice lectures (TD) for the MA1 course (16h).
Principal Teacher : Christian Reichert.

BACHELOR LEVEL

- **2015** University Claude Bernard Lyon 1 , Département de Mathématiques (Lyon-France).
Teacher Assistant : Exercice lectures (TD) for the Linear Algebra course (L1), (36h).
Principal Teacher : Kenji Iohara.

HIGH SCHOOL LEVEL

- **2009** *Mathematics Teacher*, High school León Cooper Quito(Ecuador)
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COMPUTER SKILLS

- Knowledge of Ubuntu (Linux) operating system
 - Knowledge of Windows et Apple operating systems and Microsoft Office tools
 - Knowledge of Latex document markup language
 - Basic knowledge of C/C++, Matlab, Maple programming languages
 - Basic knowledge of HTML markup language
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LANGUAGES

- Spanish (native speaker) ; English (proficient) ; French(proficient)