

# Alejandro Martínez Calvo

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Grupo de Mecánica de Fluidos  
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- Current position** **Universidad Carlos III de Madrid**  
Ph.D. student under the FPU contract (MECD), Oct. 2017–Currently
- Former positions** **Universidad Carlos III de Madrid**  
UC3M-PIPF contract, Feb. 2017–Sept.2017
- Education** **Universidad Carlos III de Madrid**  
Interuniversity Ph.D. program in Fluid Mechanics, Nov. 2016–Currently
- Universidad Carlos III de Madrid**  
M.S., Industrial Mathematics, Sept. 2015–Feb. 2017  
Mark: 9.56/10 (First of promotion)  
**M.S. thesis:** The nonlinear states of viscous capillary jets confined in the axial direction  
Mark: 10/10
- Universidad Carlos III de Madrid**  
B.S., Mechanical Engineering, Sept. 2011–Jul. 2015,  
Mark: 8.50/10 (Second of promotion)
- Awards and Fellowships** **Premio extraordinario fin de Máster (M.S. with honours)**  
Universidad Carlos III de Madrid  
Nov. 2017
- Second award of the XV Certamen Arquímedes 2016 (Engineering area)**  
Ministerio de Educación Cultura y Deporte  
Feb. 2017
- Young Researcher Grant**  
11th European Fluid Mechanics Conference  
Sept. 2016
- UC3M Postgraduate Fellowships (M.S. Studies)**  
Applied Mathematics Department, Instituto Gregorio Millán  
Sept. 2015–Feb. 2017

**Collaboration grant in the Thermal Engineering and Fluid Mechanics Department.**  
Universidad Carlos III de Madrid, Ministerio de Educación Cultura y Deporte,  
2014-2015.

**Excellence grant**  
Comunidad de Madrid,  
2012-2013, 2014-2015.

**Pre-University grant**  
Comunidad de Madrid.  
Payment of the first university academic year due to outstanding performance  
2010-2011

## Publications

1. **A. Martínez-Calvo**, M. Rubio-Rubio & A. Sevilla  
The nonlinear states of viscous capillary jets confined in the axial direction  
*J. Fluid Mech.* **834**, 335-358 (2018)
2. **A. Martínez-Calvo** & A. Sevilla  
Temporal stability of free liquid threads with surface visco-elasticity  
*J. Fluid Mech.* **846**, 877-901 (2018)

## Congresses

**A. Martínez-Calvo**, A. Sevilla  
The role of surface viscosities in the instability of liquid threads  
70th Annual Meeting of the APS DFD, Volume 62, Number 14  
Denver, USA, Nov. 2017

**A. Martínez-Calvo**, M. Rubio-Rubio & A. Sevilla  
Non-linear regimes of axially-confined vertical capillary jets  
11th European Fluid Mechanics Conference  
Sevilla, Spain, Sept. 2016

A. Sevilla, **A. Martínez-Calvo** & M. Rubio-Rubio  
Non-linear state selection of axially confined viscous liquid jets  
68th Annual Meeting of the APS DFD, Volume 60, Number 21  
Boston, USA, Nov. 2015

**Workshop on Fluid Mechanics**  
Málaga 2018, Tarragona 2017, Cádiz 2016 and Jaén 2015

## Seminars

A. Sevilla & **A. Martínez-Calvo**  
Instability and break-up of liquid jets with clean and surfactant-laden interfaces  
Invited seminar at TIPs, Université Libre de Bruxelles, Belgium, March. 2018

## Research stays

3 months at TIPs-ULB Brussels with Prof. Benoit Scheid, March - June 2018

## Languages and Skills

Spanish (native), English (advanced)  
Matlab, Python, L<sup>A</sup>T<sub>E</sub>X, Comsol Multiphysics