

# Kevin Speyer – Curriculum Vitae

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Date of Birth	11 <sup>th</sup> May 1987
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## Current Position

PhD candidate in Physics

Thesis	Simulations of liquid flow confined by semiflexible polymer brushes
University	University of Buenos Aires, Argentina
Workplace	National Atomic Energy Commission (CNEA)
Scholarship	2014 - 2019 by the National Scientific and Technical Research Council (CONICET)
Supervisor	Dr. Claudio Pastorino

## Education

2014-Present	PhD Candidate in physics by the University of Buenos Aires with a scholarship of the National Scientific and Technical Research Council (CONICET)
2006-2014	Diploma in Physics (M.S. equivalent) by the University of Buenos Aires (Avg: 9.26 / 10)
1999-2004	High school Pestalozzi
2004	Sprachdiplom Stufe II, German Language Certificate of the Education Ministers Conference
12/2003-3/2004	Student Exchange in Germany, attending classes and staying with a German host family
2002	Sprachdiplom I, German Language Certificate of the Education Ministers Conference
2001	Preliminary English Test, Cambridge University

## Scholarships and Internship

10/2016 & 3/2016	International Centre for Theoretical Physics to participate in Workshops
3/2014 - 3/2019	National Scientific and Technical Research Council (CONICET), full scholarship for PhD studies
12/2004	Bayer, paid internship

## Conferences

9/2017	102th National Reunion of the Argentine Physics Association
11/2016	Frontiers in Physical Science, Max Planck, Argentina
10/2016	Introductory School on Parallel Programming and Parallel Architecture for High-Performance Computing, ICTP, Italy
3/2016	4th Workshop on Advanced Techniques for Scientific Programming and Management of Open source Software Packages, ICTP, Italy
9/2015	100th National Reunion of the Argentine Physics Association
6/2015	4th International Workshop "Theory and Computer Simulation of Polymers: New Developments, Germany
3/2015	Workshop: Dynamics in Soft and Hard Condensed Matter, Argentina
11/2014	First Argentinian Microfluidics Workshop
9/2014	5th Argentinian Soft Matter Encounter
9/2014	99th National Reunion of the Argentine Physics Association

## Languages

Spanish	Native
English	Fluent
German	Fluent
Portuguese	Basic

## Programming Skills

Advanced in Linux environment, Python, C++, Fortran, LabView, awk, Matlab and git

## Teaching and Work Experience

8/2015 - 12/2015	Teaching Assistant at the Sto institute of the San Martational University for Introduction to Computer Simulation
3/2013 - 12/2014	Teaching Assitant at the physics department from the University of Buenos Aires for Physics I for Biologists and Physics II for Biologists
3/2012 - 12/2013	Teaching Assistant at the Common Basic Cycle (Foundation Year equiv.) at the University of Buenos Aires for Physics and Introduction to Biophysics
2/12/04 - 31/12/04	Internship at Bayer S.A. in the Trade Marketing area, Bayer Health Care (BHC) performing administrative tasks

## Scientific Publications

- Brushes of semiflexible polymers in equilibrium and under flow in super-hydrophobic regime  
K. Speyer and C. Pastorino, Soft Matter, 2015, 11, 54735484  
DOI:10.1039/C5SM01075F
- Droplet transport in a nanochannel coated by hydrophobic semiflexible polymer brushes: the effect of chain stiffness  
K. Speyer and C. Pastorino, Langmuir, 2017, 33 , 1075310763  
DOI:10.1021/acs.langmuir.7b02640

## Interests and Skills

- Polymer Physics, Soft Matter and Microfluidics
- Atomistic and coarse grain high performance computer simulations
- Statistical Analysis of Big Data
- Experience with Laboratory Equipment and single-board microcontrollers such as Arduino Raspberry Pi