

Kevin Speyer

Nationality: Argentinian and German

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Date of Birth: 11th May 1987

Address: Ballivian 3283, Buenos Aires, Argentina

Current Position

4/2014 – to date: PhD candidate in Physics.

Thesis: “Simulations of liquid flow confined by semiflexible polymer brushes”

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

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| 2014 - to date | PhD Candidate in physics by the University of Buenos Aires with a scholarship of the National Scientific and Technical Research Council (CONICET) |
| 2006 - 2014 | Lic. in physics by the University of Buenos Aires (MS equivalent). (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. |

Languages

Spanish: Native
English: Fluent
German: Fluent
Portuguese: Basic

Teaching and Work Experience

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| 8/2015 – 12/2015 | Teacher Assistant at the Sábato institute of the San Martín National University for Introduction to Computer Simulation |
| 3/2013 – 12/2014 | Teacher Assistant at the physics department from the University of Buenos Aires for Physics I for Biologists and Physics II for Biologists |
| 3/2012 - 12/2013 | Teacher 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 de la Unidad de Negocios Bayer Health Care (BHC), performing administrative tasks. |

Conferences

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

Programming skills

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

Scholarships & Internship

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| 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 |

Publications

- Brushes of semiflexible polymers in equilibrium and under flow in a super-hydrophobic regime
K. Speyer and C. Pastorino, *Soft Matter*, 2015, **11**, 5473–5484
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**, 10753–10763
DOI:10.1021/acs.langmuir.7b02640

Interests and Skills

- Polymer Physics and Microfluidics
- Atomistic and coarse grain high performance computer simulations
- Statistical Analysis of Big Data
- Experience with Laboratory Equipment and single-board microcontrollers (Arduino & Raspberry Pi)