Kevin Speyer

11th May 1987
Argentinian / German
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PROFESSIONAL EXPERIENCE

Data Scientist 1/2019 - Present
Cybertec Schönig & Schönig GmbH (Austria)

- Managed a project to build a BI dashboard engine in PostgreSQL for a client.
- Researched a cost-effective way to reduce the amount of backup disks in wharehouse, implementing ML models.
- Designed and implemented a high performance algorithm to optimize the use of resources in the meat industry.

Database Administrator 9/2018 - 1/2019
Employed by Cybertec Schönig & Schönig GmbH (Austria), performing PostgreSQL consulting for Rappi (Colombia)

- Conducted an integral diagnose of the main problems in core Databases regarding health and performance issues.
- Developed a series scripts to automatically clean up and maintain the principal Databases, reducing dead-space from over 90% to less than 10%.
- Created various Dashboards to monitor the most important health and performance metrics of the Databases.

Teaching Assistant 3/2012 - 9/2018
Physics Department, Faculty of Exacact and Natural Sciences, University of Buenos Aires.

EDUCATION

PhD in Computational Physics 4/2014 - Present
University of Buenos Aires, CNEA-CONICET
Expected: June 2019
Title: "Simulations of liquid flow confined by semiflexible polymer brushes"
PhD Supervisor: Dr. Claudio Pastorino

Diploma in Physics (M.S. equivalent) 2006 - 2014
Average: 9.26 / 10
Faculty of Exacact and Natural Sciences, University of Buenos Aires

COMPUTER SKILLS

Languages & Software: Python, bash, Fortran, Matlab, C++, SQL, awk, git, AWS

LANGUAGES

Spanish, English, German, Portuguese

INTERESTS

- Mathematical Modeling and High Performance Computing
- Statistical Analysis of Big Data and Machine Learning
  (see personal projects in www.github.com/kevo-speyer/)
- Process Automation with single-board microcontrollers

SCIENTIFIC PUBLICATIONS

K. Speyer, C. Pastorino, "Pressure responsive gating in nanochannels coated by semiflexible polymer brushes", *Soft Matter*, 2019

K. Speyer, C. Pastorino, "Droplet transport in a nanochannel coated by hydrophobic semiflexible polymer brushes: the effect of chain stiffness", *Langmuir*, 2017

K. Speyer, C. Pastorino, "Brushes of semiflexible polymers in equilibrium and under flow in a super-hydrophobic regime", *Soft Matter*, 2015

SCHOLARSHIPS

Research Project 5/2018 - 7/2018
German Academic Service Exchange (DAAD), University of Göttingen, Germany

PhD Studies 4/2014 - 3/2019
National Scientific and Technical Research Council (CONICET)

Workshops 10/2016 & 3/2016
International Centre for Theoretical Physics (ICTP) to participate in High-Performance Computing Workshops in Trieste, Italy