

Jakub Krajniak

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🌐 <http://jkrajniak.pl/>

🌐 <http://www.github.com/MrTheodor/>

Education

- 2013 – ... ♦ **PhD Computer Science, KU Leuven, Belgium.**
- 2010 – 2012 ♦ **MSc Physics, Adam Mickiewicz University, Poland**
Thesis title: *Phase diagram of multiblock copolymer studied by Monte Carlo method.*
- 2007 – 2010 ♦ **BSc Physics, Adam Mickiewicz University, Poland**
- 2005 – 2009 ♦ **BEng Computer Science, Poznan University of Technology, Poland**
Thesis title: *The system of supervision and control devices based on Bluetooth technology.*

Publications

- 1 **Krajniak, J., Pandiyan, S., Nies, E. & Samaey, G. (2016).** Generic Adaptive Resolution Method for Reverse Mapping of Polymers from Coarse-Grained to Atomistic Descriptions. *Journal of Chemical Theory and Computation*, 12(11), 5549–5562. doi:10.1021/acs.jctc.6b00595
- 2 Pandiyan, S., **Krajniak, J.**, Samaey, G., Roose, D. & Nies, E. (2015). A molecular dynamics study of water transport inside an epoxy polymer matrix. *Computational Materials Science*, 106, 29–37. doi:10.1016/j.commatsci.2015.04.032
- 3 **Krajniak, J.** & Banaszak, M. (2013). Monte Carlo Study of Patchy Nanostructures Self-Assembled from a Single Multiblock Chain. *Computational Methods in Science and Technology*, 19(3), 137–143. doi:10.12921/cmst.2013.19.03.137-143

Conferences

- 2017 ♦ **ECCOMAS Conference of Computational Modelling of Multi-Uncertainty and Multi-Scale Problems** (Porto, 12–14 September) *talk*
- 2016 ♦ **8th International Conference on Multiscale Materials Modeling** (Dijon, France, 9–14 October) *talk*
♦ **Computational Statistic and MOlecular Simulation** (Paris, France, 2–5 February) *poster*
- 2015 ♦ **BIT's 5th Annual World Congress of Nano Science and Technology** (Xi'an, China, 24–26 September) *talk*
♦ **Mainz Materials Simulation Days 2015: Non-equilibrium processes in soft matter** (Mainz, 10–12 June) *poster*

Summer schools and workshops

- 2017 ♦ **GPUs** (ICTS Leuven, 8th May)
- 2016 ♦ **High performance Python** (ICTS Leuven, 2nd May)
- 2015 ♦ **Debugging techniques** (ICTS Leuven, 1st December)
♦ **Spring school on computational tools for materials science** (Ghent, 13–17 April)
- 2014 ♦ **Multiscale modelling and use of ESPReso++ and VOTCA** (Mainz, 4–10 October)
♦ **CCP5 summer school** (Manchester, 13–22 July)
♦ **Specialist workshops in parallel computing** (Ghent, 14–16, 22 April)
- 2013 ♦ **GPU programming using CUDA** (ICTS Leuven, 3–6 November)

Skills

- Languages ♦ Strong reading, writing and speaking competencies for English. Basic skills of Dutch.
- Coding ♦ Python; C++; hybrid Python/C++; Cython; SQL, XML/XSL; GPGPU programming (CUDA); Java for Android environment
- Databases ♦ MySQL, PostgreSQL, Google AppEngine environment
- Web ♦ backend developer, Django, Flask
- Misc. ♦ Strong analytic skills, oriented for problem solving, long-run project management, team working, strong public speaking skill, managing data and information

Employment History

- 2013 – ····· ♦ **Doctoral Researcher** KU Leuven, Department of Computer Science, Leuven, Belgium
- 2012 – 2013 ♦ **Python programmer** Google Inc., Wroclaw, Poland
- 2011 – 2012 ♦ **Python programmer** internetowykantoor.pl, Poznan, Poland

References

Available on Request