YURIY KASHNIKOV

Novosibirsk, Russia

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I like challenging tasks and elegant solutions. I am not afraid of low level optimization or high level abstractions. Getting things done is important to me. I like to work in team and communicate with people. Fluent in English and somewhat fluent in French. Native Russian speaker.

SKILLS

- Data mining, compilers, performance optimization, binary translators
- Good at debugging and performance optimization
- Strong mathematical background

HARDWARE and OPERATING SYSTEMS

- GNU/Linux (Debian, Ubuntu) — x86
- Microsoft Windows (XP) — x86
- Mac OS X — x86

PROGRAMMING LANGUAGES

- Python, R, C, C#, Python, BASH, x86 assembly language

EMPLOYMENT HISTORY

- **Postdoc** at Exascale Computing Research Laboratory, Paris, France (2013)
- **Research Assitant** at Exascale Computing Research Laboratory, Paris, France (2009 – 2013)
- **Visiting Researcher** at INRIA Saclay, Orsay, France (October 2009 – January 2009)
- **Software Engineer** at GrapeCity / DataDynamics, Ltd., Novosibirsk, Russia (2008 – 2009)
- **Undergraduate Intern (Software Engineering)** at Intel, Novosibirsk, Russia (2007 – 2008)

PROJECTS

2009 – 2012 cTuning

2009 – 2010 MILEPOST

2006 – 2008 Apache Harmony

EDUCATION

2013 PhD in Computer Science from Université de Versailles Saint-Quentin-en-Yvelines

2009 MS in Applied Math and Computer Science from Novosibirsk State University

AWARDS and SCHOLARSHIPS

2007 Intel Scholarship Award

ORGANIZING EVENTS

2013 Chair of Scheduling session at HPCS 2013, Helsinki, Finland

2012 Co-organizer of EXADAPT workshop on Adaptive Self-Tuning Computing Systems co-located with ASPLOS 2012, London, UK

2011 Co-organizer of EXADAPT workshop on Adaptive Self-Tuning Computing Systems co-located with FCRC/PLDI 2011, San Jose, CA, USA

PUBLICATIONS

- Yuriy Kashnikov, Pablo de Oliveira Castro, Emmanuel Oseret, William Jalby *Evaluating Architecture and Compiler Design through Static Loop Analysis*. **The 2013 International Conference on High Performance Computing and Simulation**. (**nominated for outstanding paper award**)

- Yuriy Kashnikov, Jean Christophe Beyler, William Jalby *Compiler optimizations: Machine Learning versus O3*. **The 25th International Conference on Languages and Compilers for Parallel Computing**.

- Grigori Fursin, Yuriy Kashnikov, Abdul Wahid Memon, Zbigniew Chamski, Olivier Temam, Mircea Namolaru, Elad Yom-Tov, Bilha Mendelson, Ayal Zaks, Eric Courtois, Francois Bodin, Phil Barnard, Elton Ashton, Edwin Bonilla, John Thomson, Chris Williams, Michael O'Boyle. *MILEPOST GCC: machine learning enabled self-tuning compiler*. **International Journal of Parallel Programming (IJPP)**.

- Yuanjie Huang, Liang Peng, Chengyong Wu, Yuriy Kashnikov, Jrn Renneke, and Grigori Fursin. *Transforming GCC into a research-friendly environment: plugins for optimization tuning and reordering, function cloning and program instrumentation*. **2nd International Workshop on GCC Research Opportunities (GROW10) co-located with HiPEAC'10, Pisa, Italy, January 2010**

- Yuriy Kashnikov, Mihail Fursov, Igor Skopin. *Advanced garbage collection algorithms and cache-conscious data placement*, **International Scientific Students Conference MNSK, Novosibirsk, Russia, 2008**

- Yuriy Kashnikov, Mihail Fursov, Igor Skopin. *Value profiling and virtual calls devirtualization in Just-In-Time compilers*, **Microsoft technologies in theory and practice of programming, Novosibirsk, Russia, 2007**

REFERENCES

- Prof. William Jalby
  PhD Advisor and Director of Exascale Computing Research Laboratory
  UVSQ, Versailles, France

- Dr. Grigori Fursin
  Team Leader at ECR (currently Director of Research at INRIA)
  INRIA, Paris, France

- Dr. Pablo de Oliveira Castro
  Team Leader at ECR (currently Assistant Professor at UVSQ)
  UVSQ, Versailles, France

- Sergey Todyshev
  Team Leader at GrapeCity / DataDynamics
  Novosibirsk, Russia

- Scott Willeke
  Manager at GrapeCity / DataDynamics (currently Technical Product Manager at Daptiv)
  Greater Seattle Area, WA, USA

- Alexander Zharkov
  Manager at Intel Russia
  Novosibirsk, Russia