Julia Proskurnia

PhD Student in Distributed Computing, System Analyst

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Education

KTH Royal Institute of Technology, Sweden
MSc in Distributed Computing (EMDC) **2011–2013**
Subjects taken: Advanced Topics in Distributed Computing, Implementation in Distributed Computing. *Notable Projects*: Gossip Learning on Social Networks. ***Master Thesis:*** Genium Data Store: Real Time, Low Latency, Reliable, Consistent, Scalable Distributed Data Store for Nasdaq OMX

Universitat Politècnica de Catalunya, Spain
MSc in Distributed Computing (EMDC) **2011–2013**
Subjects taken: Distributed and Networked Systems, Parallel Programming Models and Algorithms, Security in Information Technology Systems, Decentralized Systems, Scalable Distributed Systems. *Notable Projects*: Smith-Waterman Algorithm Parallelization - An application written in C++ that parallelizes a serial algorithm using MPI library; Group Membership and Leader Election using ZooKeeper - An implementation with Java of these two distributed systems' primitives.

National Technical University of Ukraine Kiev Polytechnic Institute (NTUU KPI), Ukraine
System Analyst, MSc **2009–2011**
Master Thesis: Decision making system for portfolio investment in uncertain conditions. *Subjects taken*: Programs developing and testing, Modern programming technologies, Computer information systems developing, Cryptology, Primary course in intellectual systems projection, Software support of computers networks, System analysis of World Economy, Fuzzy models and methods in intellectual decision making systems.

National Technical University of Ukraine Kiev Polytechnic Institute (NTUU KPI), Ukraine
BSc in Computer Science **2005–2009**
Subjects taken: Mathematical Analysis, Discrete Mathematics, Programming and Algorithmic Languages, Probability Theory and Mathematical Statistics, Numerical Methods, OOP, Computer Networks, Decision making theory in complex system, DB, Statistical Analysis of Economic Processes.

Working Experience

École Polytechnique Federale de Lausanne
Internship in Distributed Computing Lab **Summer 2013**
Design a video streaming framework over byzantine hightly dynamic infrastructure.

Nasdaq OMX, Stockholm, Sweden
Master thesis internship in Core Development team **Jan–Jun 2013**
Designing, developing, testing a distributed data store based on reliable total order multicast abstraction. The data store provides the following properties: real-time, low-latency, reliable, fault-tolerant, consistent and scalable.

Google Student Amabassador EMEA Program, Stockholm, Sweden
Google Student Ambassador at KTH **2012–2013**

Universitat Oberta de Catalunya, Barcelona, Spain
Visiting Researcher in Department of Distributed Computing and Optimisation **Summer 2012**

AlfaBank Ukraine, Kyiv, Ukraine
Economist **2010–2011**
Decision making support. Developing mathematical models of bank processes. Developing reports for the retail business.

Honors and awards

Doctoral fellowship, EDIC program in EPFL **2013-2014**

EMEA Google Anita Borg *Scholarship* Winner **April 2012**

Awarded "Faculty Pride 2011" **March 2011**

Awarded with named scholarship by Parliament and deputy Andrievsky **Jul 2010-Jan 2011**

1st place at the National level of European BEST Engineering Competitions **Aug 2010**

Awarded for the high achievements in educational and scientific activities at Institute of Applied System Analysis, the best student of the faculty **May 2010**

Named Scholarship of Academician Daleckiy **Feb-Jun 2010**

Skills

Programming languages: Java, C++, Scala, Eralng.

Participations

Publications

Proskurnia Iu. S., Bruzgys Z., Girdzijauskas S. *Gossip learning with linear models on fully distributed data over clustered graphs* 15-th International Conference SAIT 2013.

Proskurnia Iu. S., Marques J.M. *Large-scale Decentralized Storage Systems used by Volunteer Computing.* 14-th International Conference SAIT 2012.

Proskurnia, I.S., Grivko B.S. *Analysis and optimization of investor portfolio in fuzzy conditions.* Mathematical and computer modeling 2010, Ukraine.

Proskurnia I.S., Grivko B.S. *Researching of modification FOTSK of neural network TSK in forecasting problems.* Information Models of Knowledge 2010. 470, 177-185.

Grivko B.S., Proskurnia I.S. *Using of forecasting methods for portfolio making in fuzzy conditions.* 12-th International Conference SAIT 2010.

Proskurnia I.S., Grivko B.S. *Efficiency analysis of adaptive Kalman Filter for prediction.* SAIT 2009.

Proskurnia I.S., Grivko B.S. *Using Adaptive Kalman filtering for prediction sales dynamics.* New Technologies 2009, No 2(24). 162, 76-81.

Conferences

Participated in Erland User Conference 2013 **June 2013**

Participated in Microsoft Cloud Burst conference **2012**

Participated in SICS Multicore Day conference **2012**

IN3-HAROSA 2012 Workshop & Meeting on Applied Optimization & Distributed Computing Highly Available Large-Scale Decentralized Storage Systems over Volunteer Computing. *June 13-15, 2012, Barcelona, Spain.*

SAIT 2011 (System Analysis and Information Technologies) Research of the Differential Evolution method for neural network TSK and FOTSK learning. Analysis of Forecast Direction method for FOTSK and GMDH in forecasting problems. *23-28.05.2011, Kiev, Ukraine.*

V International conference "Theory of decision making 2010" Analysis of FOTSK of neural network TSK in forecasting problems. *27-30.09.2010, Uzhgorod, Ukraine.*

KDS 2010 Research of modification FuzzyOutputTSK of neural network TSK in forecasting problems. *06-08.09.2010, Kiev, Ukraine.*

SAIT 2010 (System Analysis and Information Technologies) Using forecasting methods for portfolio making with fuzzy conditions. *25-29.05.2010, Kiev, Ukraine.* item **SAIT 2009** Complex System Support with Scale-Free Networks. *26-30.05.2009, Kiev, Ukraine.*

ITETS - 2009 (Informational Technologies in Economical and Technical Systems) Using of Adaptive Kalman Filter in forecast problems. Awarded: Best Presentation. *15-16.04.2009, Kremenchug, Ukraine.*