

SZYMON WASIK

CURRICULUM VITAE

PERSONAL INFORMATION

Name Szymon Wasik
Address
Nationality
Date of birth
Mobile phone
E-mail

If you are interested in my personal information please contact me using e-mail address that can be found on my webpage:

<http://www2.cs.put.poznan.pl/swasik>



EDUCATION AND QUALIFICATIONS

- Oct 2013* Scholarship financed from program Eurospin: *Intellectual property management - the key to success in science and business relations*, University of Stirling, United Kingdom
- 2008 - 2013* Ph. D., Bioinformatics, Poznan University of Technology, Poland
Doctoral Dissertation: *Bioinformatics models and algorithms of viral infections*
- Mar – Jun 2008* Socrates – Erasmus scholarship at Computing Science School, University of Nottingham, United Kingdom
- 2007 - 2008* M. Sc., Intelligent Decision Support Systems, Computing Science, Poznan University of Technology, Poland
Master Thesis: *Computer models of viral infections*
- 2003 - 2007* B. Sc., Computing Science, Poznan University of Technology, Poland
Bachelor Thesis: *IntelliForest – a network-centric system for forest monitoring and protection*

AWARDS AND ACHIEVEMENTS

- 2013, 2012, 2010* Rector's award for outstanding teaching achievements
- 2011* Scholarship for Ph. D. students specializing in majors strategic for Wielkopolska region's development
- 2011* Award for the best oral presentation during Polish Bioinformatics Conference, Gdansk, Poland

- 2010 Award for the best poster presentation during Polish Bioinformatics Conference, Ustron, Poland
- 2009 IEEE Achievement Award for organizing algorithmic, student competition IEEEExtreme, USA
- 2008 Award for the outstanding graduate of Poznan University of Technology “Summa cum laude”
- 2008 Imagine Cup semi-finalist in Project Hoshimi category
- 2007, 2006 Scholarship of Minister of Education for outstanding students
- 2007 “Polish Talents” scholarship for outstanding computing science students
- 2007 4th place in ROADEF scheduling contest, Grenoble, France
- 2006 Finalist in CSIDC design competition with project „IntelliForest - a network-centric system for forest monitoring and protection”, Washington DC, USA
- 2006 Imagine Cup semi-finalist in Project Hoshimi category
- 2005 2nd place in International Grid Flowshop scheduling contest in France
- 2005 1st place in Challenge24 Programming Contest in Budapest, Hungary
- 2005 Imagine Cup semi-finalist in Algorithm and Visual Gaming categories
- 2004 4th place in Collegiate Programming Championships of Poland
- 2004 1st place in Bialystok Open 2004 Collegiate Programming Championships
- 2002 Outstanding finalist of Polish Olympiad in Informatics
- 2002 Finalist of Polish Olympiad in Mathematics
- 2001 Finalist of Polish Olympiad in Informatics

EMPLOYMENT AND PROJECTS

- Oct 2013* – Assistant Professor at Institute of Computing Science, Poznan University of Technology, Poland:
– present
- Classes on “Introduction to Computing Science”
 - Classes and lectures for outstanding students on “Algorithms and Data Structures”
 - Research work on Bioinformatics
 - Organizing algorithmic events, coach of local contestants
 - Main responsible person for publishing “Poznan Monographs in Computing Science and Its Applications” series
- Oct 2008* – Teaching Assistant at Institute of Computing Science, Poznan University of Technology, Poland:
– Sep 2013
- Classes on “Introduction to Computing Science”, “Combinatorial Optimization”, “Parallel Computing” and “Algorithms and Data Structures”

- Research work on Bioinformatics in cooperation with Institute of Bioorganic Chemistry
 - Organizing algorithmic events, coach of local contestants
 - Main responsible person for publishing “Poznan Monographs in Computing Science and Its Applications” series
- Nov 2006 – *present* Project Manager at Mobile Systems Research Laboratories at Poznan University of Technology, Poland and co-founder of Mlabs Company:
- Development Team Leader of the Monitoring Applications Team
 - Manager of projects that require designing headquarter applications that analyze information gathered from the system and control system components
 - Designing and implementation of innovative, integrated computer systems, often containing Unmanned Aerial Vehicles
- Jul – Sep 2007* Internship at Microsoft Corporation, Redmond, USA:
- Software Design Engineer in Windows Instrumentation Team
 - Design and implementation of instrumentation infrastructure for Windows 7
 - Design and implementation of some parts of Windows 7 kernel
- Jul – Sep 2006* Internship in Microsoft Corporation, Redmond, USA:
- Software Design Engineer in Server Performance Team,
 - Design and implementation of application that tests performance of file system calls in Windows Vista kernel
 - Performance tests of Windows Vista file system infrastructure
- Feb 2006 – Sep 2008* Technician at Institute of Computing Science, Poznan University of Technology, Poland
- Jan 2006 – Dec 2011* Creating IntelliForest – a network-centric system that monitors forest environment:
- Design of the system: project specification, design of architecture, protocol for data exchange in ad-hoc sensor network, design of monitoring applications
 - Implementation of monitoring applications using .NET technology and .NET Compact Framework for Windows Mobile devices
 - Currently version 2.0 of IntelliForest is put into operation for Polish National Forests and will be used by researchers from Poznan University of Life Sciences
- 2005 – 2008* Interesting projects during studies:
- Background subtracting from the video using GPU computing
 - Recognition of digits from pictures of LED displays
 - Text normalization for Polish language (it is a hard problem because Polish has very complex inflections)
 - Recognition of charts drawn on the touch screen of PDA
 - Parsing description of Internet auctions
 - Web database for storage and analysis of genetic structures

- 2003 – 2008 Classes on “Algorithms and Data Structures” for students of Poznan University of Technology and for high school students, Poland
- 2001 – present Web designer:
- Creating web pages for various companies, organizations and persons
 - Usually HTML, CSS, JavaScript, PHP and MySQL or PostgreSQL
 - Many sites created using CMSes and implementation of custom extensions

MEMBERSHIP IN ORGANIZATIONS AND COMMITTEES

- 2007 – present Member and since 2012 chairman of regional committee of Polish Olympiad in Informatics
- Sep 2004 Preparing problems for Polish Olympiad in Informatics,
– present Organizer of Algorithmic Contests at Poznan University of Technology
- Oct 2009 Organizer of Polish Championships in Team Programming
- 2009, 2008 Preparing problems and judge of IEEE International IEEEExtreme contest
- Apr 2008 Preparing problems for 14th Baltic Olympiad in Informatics, Gdynia, Poland
- Nov 2005 Vice-chairman of Students Association of Computing Sciences,
– Oct 2006 Poznan University of Technology, Poland
- Nov 2004 Chief of the Algorithmic Section of “Booboo” Students Organization,
– Oct 2007 Poznan University of Technology, Poland
- Sep 2004 – Member of Scientific and Technical Committee of
– Sep 2005 17th International Olympiad in Informatics, Nowy Sacz, Poland
- Oct 2004 Organizer, preparing problems and lectures on Scientific Camp of Antoni Keczmar for finalists of Polish programming contests, Nowy Sacz, Poland
- Jul 2004 Organiser of 11th Central European Olympiad in Informatics, Rzeszow, Poland
- 2002 – 2004 Five times an organiser of Regional Programming Contest for high school students, Poznan, Poland

SELECTED PAPERS, CONFERENCES AND PRESENTATIONS

- Dec 2012 S. Wasik, “*Bioinformatyczne modele i algorytmy infekcji wirusowych (Bioinformatics models and algorithms of viral infections)*”, Poznan Monographs in Computing Science and Its Applications, Poznan, Poland, Nakom, 2012, vol. 10.
- Dec 2011 S. Wasik, P. Jackowiak, M. Figlerowicz, J. Blazewicz, “*Modeling HCV infection using multi-agent simulation*”, in Machine Learning Reports 01/2011, 2011, pp. 37-41.
- May 2010 M. Popena, M. Szachniuk, M. Blazewicz, S. Wasik, E. K. Burke, J. Blazewicz, R. W. Adamiak, “*RNA FRABASE 2.0: an advanced web-*

accessible database with the capacity to search the three-dimensional fragments within RNA structures.”, BMC Bioinformatics, vol. 11, pp. 231

- Mar 2010* S. Wasik, P. Jackowiak, J. B. Krawczyk, P. Kedziora, P. Formanowicz, M. Figlerowicz, J. Blazewicz, “*Towards prediction of HCV therapy efficiency*”, Computational and Mathematical Methods in Medicine, vol. 11(2), pp. 185-199
- Oct 2007* P. Lichocki, M. Mamonski, S. Wasik, „*Solving N-queens Problem in Grid Environment*”, 4th Grid PLUGTESTS Conference, Beijing, China
- Feb 2007* Wojciech Jaskowski, Szymon Wasik, “*Efficient Greedy Algorithm with Hill Climbing for Technicians and Interventions Scheduling Problem*”, Presentation on Francoro V/ROADEF 2007 Conference, Grenoble, France
- Nov 2005* P. Lichocki, M. Mamonski, S. Wasik, „*Solving Permutational Flowshop Problem in Grid Environment*”, 2nd Grid PLUGTESTS Conference, Sophia-Antipolis, France
- May 2004* Marek Rucinski, Szymon Wasik, “*Network Flow Algorithms*”, Presentation on 2nd Student Workshop organized by Students Association of Computing Sciences, Blazjewko, Poland

PROFESSIONAL EXPERIENCE

Languages C/C++/C#, Cg, Pascal/Delphi, Visual Basic, SQL, Prolog, AWK, Lex, Yacc, HTML, XML, PHP, Java Script, Bash scripts

IDE Microsoft .NET, Eclipse, Borland IDE, QtDesigner, Netbeans

OSs Windows, Linux, MacOS

Other .NET and .NET Compact Edition, OpenGL, MS Office/OpenOffice, LaTeX, Windows API, Joomla

LANGUAGES

Polish Native

English Oral skills: very good
Written skills: very good

German Oral skills: basic
Written skills: basic

PERSONAL SKILLS

Teaching experience

Very good knowledge of algorithms

Ability to work in the team

Network administration experience

Driving licence

Lifeguard entitlement

INTERESTS AND HOBBIES

Artificial Intelligence, Computational Biology, Algorithms

Running, Skiing, Swimming, Cycling, Football, Volleyball

Chess, Bridge

Classical Rock Music, Instrumental Music