

PERSONAL INFORMATION **Maciej Bartoszek, M.SC. Eng.**

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 <http://www.bartoszek.rexamine.com>

Gender Male | **Date of birth** [REDACTED] 1989 | **Nationality** Polish

WORK EXPERIENCE**March 2016 – Present** **Research and Teaching Assistant**

Faculty of Mathematics and Information Science,
Warsaw University of Technology
ul. Koszykowa 75, 00-662 Warsaw (Poland)
Conducting research and teaching students

July 2015 – December 2015 **Internship**

Systems Research Institute,
Polish Academy of Sciences
ul. Newelska 6, 01-447 Warsaw (Poland)

- part of Interdisciplinary PhD Studies in Information Technology
- developing a new hierarchical clustering algorithm
- developing of the algorithm ended up writing an article which is accepted for publication in the Information Sciences journal (IF 4.038)

EDUCATION

2013–2015 **PhD studies - Thesis Title: 'Anti-plagiarism system for R language'**, **still pursuing**

Institute of Computer Science, Polish Academy of Sciences, Warsaw (Poland)

2012–2013 **Master of Science in Computer Science**, **graduated with distinction**

Warsaw University of Technology, Warsaw Poland

- speciality "design of CAD/CAM systems"
- computer graphics
- physics simulations
- shaders
- geometric modeling

2008–2012 **Bachelor of Science in Computer Science**, **graduated with distinction**

Warsaw University of Technology, Warsaw Poland

- parallel programming
- algorithms and data structures
- CUDA
- business applications
- databases

PERSONAL SKILLS

Mother tongue Polish

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

Driving licence A, B

HONORS AND GRANTS

2015–2017 Co-investigator in Research project 2014/13/D/HS4/01700 (NCN) Construction and analysis of methods of information resources producers' quality management.

October 2015 Distinction for high valuation by students for laboratory classes

2014/15 Scholarship for academic achievements at Institute of Computer Science, Polish Academy of Sciences

2013/14 Scholarship for academic achievements at Institute of Computer Science, Polish Academy of Sciences

2013 top 5% of students in the academic year 2012/2013 at the Faculty of Mathematics and Information Science, Warsaw University of Technology, Poland

2012 top 5% of students in the academic year 2012/2013 at the Faculty of Mathematics and Information Science, Warsaw University of Technology, Poland

PROJECTS

2015 Distributed Calculation of R code using computer cluster

2014 Web interface for antiplagiarism system, <http://www.similar.rexamine.com>

2013 Physics implementation and project management in Mars Effect, mars lander simulator, <http://www.mini.pw.edu.pl/~porter/ppvr/MarsEffect/index.html>

COURSES

Institute of Computer Science,
Polish Academy of Sciences

- Advanced Software Development Data Analysis with R
- Introduction to Machine Learning
- Advanced Statistical Methods
- Game and Decision Theory
- Monte Carlo methods: Algorithms & applications
- Advanced Topics in Machine Learning
- Biological Inspirations in Computational Intelligence Algorithms
- Mining massive datasets
- Natural language processing

SAS Institute – Data processing with SAS (part I)

SKILLS

- Programming languages and technologies
- C++, Boost, Qt
 - C#, WPF, WinForms, ASP.NET MVC, Visual Studio
 - R, Python
 - PHP
 - JavaScript
 - PostgreSQL, SQLite
 - Linux, Bash

- Scientific interests
- algorithms and data structures
 - machine learning
 - information retrieval
 - similarity measures
 - graphs, similarity of graphs
 - hierarchical clustering

SOCIAL

- January 2015 – December 2015 Chairman of Ph.D student council

PUBLICATIONS

- Books
- Gagolewski M., Bartoszuik M., Cena A., *Genie: Przetwarzanie i analiza danych w języku Python (Data Processing and Analysis in Python)*, Wydawnictwo Naukowe PWN, 2016 (accepted for publication)
- Journals
- Gagolewski M., Bartoszuik M., Cena A., *Genie: A new, fast, and outlier-resistant hierarchical clustering algorithm*, *Information Sciences* **363**, 2016, pp. 8-23. doi:10.1016/j.ins.2016.05.003
- Proceedings
- Gagolewski M., Cena A., Bartoszuik M., *Hierarchical clustering via penalty-based aggregation and the Genie approach*, In: Torra V. et al. (Eds.), *Modeling Decisions for Artificial Intelligence (Lecture Notes in Artificial Intelligence 9880)*, Springer, 2016, pp. 191-202. doi:10.1007/978-3-319-45656-0_16
 - Bartoszuik M., Beliakov G., Gagolewski M., James S., *Fitting aggregation functions to data: Part I – Linearization and regularization*, In: Carvalho J.P. et al. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II (Communications in Computer and Information Science 611)*, Springer, 2016, pp. 767-779. doi:10.1007/978-3-319-40581-0_62
 - Bartoszuik M., Beliakov G., Gagolewski M., James S., *Fitting aggregation functions to data: Part II – Idempotentization*, In: Carvalho J.P. et al. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II (Communications in Computer and Information Science 611)*, Springer, 2016, pp. 767-779. doi:10.1007/978-3-319-40581-0_63
 - Bartoszuik M., Gagolewski M., *Detecting similarity of R functions via a fusion of multiple heuristic methods*, In: Alonso J.M., Bustince H., Reformat M. (Eds.), *Proc. IFSA/EUSFLAT 2015*, Atlantis Press, 2015, pp. 419-426,
 - Bartoszuik M., *Solving systems of polynomial equations: a novel end condition and root computation method*, In: *Proceedings of the 2014 Federated Conference on Computer Science and Information Systems*, M. Ganzha, L. Maciaszek, M. Paprzycki (eds). ACSIS, Vol. 2, pages 543–552 (2014), doi:10.15439/2014F183,
 - Bartoszuik M., Gagolewski M., *A fuzzy R code similarity detection algorithm*, In: Laurent A. et al. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part III (CCIS 444)*, Springer-Verlag, Heidelberg, 2014, pp. 21-30.