

## BORYS WRÓBEL, CURRICULUM VITAE

**Name:** Borys Wróbel

**Date of birth:** Jan 13, 1976

**Gender:** Male

**Nationality:** Polish

**Natural languages:**

Proficiency in: English, Polish (native) and Spanish, understanding of: French, Russian, Portuguese

**Computer languages/environments:**

C, C++, Java, MATLAB, Perl, Python, R, Mathematica

**Education/degrees:**

Professor in biological sciences, President of the Republic of Poland (Dec 2014)

DSc in biology (computational biology), Faculty of Biology, University of Gdańsk, Poland (Oct 2008)

PhD in biology (molecular biology), Faculty of Biology, Geography and Oceanology, University of Gdańsk, Poland (Dec 1998)

MSc in biotechnology, Faculty of Biotechnology, University of Gdańsk and Medical University of Gdańsk, Poland (May 1997)

**Current positions:**

Full professor, Faculty of Biology, Adam Mickiewicz University in Poznań, Poland (double appointment since 11.2009) and professor, Institute of Oceanology of the Polish Academy of Sciences, Poland (employed since 12.1998, originally in the Centre for Marine Biology of the Polish Academy of Sciences, which merged with the Institute of Oceanology)

**Previous scholarships and fellowships:**

2013 (3 months) Department of Computing, University of Surrey, Guildford, United Kingdom, EU COBRA Fellowship

2012 (12 months) at the Institute of Neuroinformatics, University and ETH Zurich, Switzerland, Sciex Fellowship

2010 (6 weeks): at the Institute of Complex Systems – Paris Ile-de-France: Bourse du gouvernement français

2002-2005 (3 years): at the Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia, Spain: Marie Curie Fellowship (2 years), then supported by the Institute of Oceanology of the Polish Academy of Sciences

1999-2001 (2 years): at the Hebrew University of Jerusalem, Israel: the Hebrew University Postdoctoral Fellowship, Federation of European Biochemical Societies Long-Term Fellowship (1 year), European Molecular Biology Organization Long-Term Fellowship (1 year)

1997-1998 (10 months): at the Salk Institute for Biological Studies, La Jolla, CA, USA: Fulbright Visiting Researcher

1996 (4 weeks): at the US National Institute of Child Health and Human Development, Bethesda, MD, USA: Research Fellowship

1994-1998 (4 years): at the University of Gdańsk, Poland: Polish National Fund for Gifted Children, City of Gdańsk, Polish Minister for National Education, University of Gdańsk Postgraduate Scholarship

**Scientific awards:**

2010: Polish Genetics Society Award for a collection of papers published in 2007-2009  
2009: Polish Prime Minister Award for exceptional habilitation dissertation  
2006, 2007: Foundation for Polish Science Fellowship  
2001: Rector of the University of Gdańsk Award  
2001: Polish Genetics Society Award for a collection of papers published in 1998-2000  
1999: Polish Prime Minister Award for exceptional PhD dissertation  
1997: Procter & Gamble Poland Award for the best MSc thesis

**Memberships:**

Global Young Academy (elected in 2012)

The Young Academy of Scholars of the Polish Academy of Sciences (elected for 2011-2016), member of:  
Committee of Evolutionary and Theoretical Biology of the Polish Academy of Sciences (2012-2015),  
Committee of Neurobiology of the Polish Academy of Sciences (2012-2015 and 2015-2018),  
Committee of Computer Science (2015-2018), Committee of Bioethics of the Polish Academy of  
Sciences (2015-2018), Committee for Forecasts of the Polish Academy of Sciences (2015-2018),  
Commission for Technical Cybernetics of the Poznan Branch of the Polish Academy of Sciences (since  
2012), Commission for Computer Science of the Gdańsk Branch of the Polish Academy of Sciences  
(since 2012), National Committee for Cooperation with the European Network of Research Integrity  
Offices (ENRIO) of the Polish Academy of Sciences (member since 2012)

Intelligent Systems Applications Technical Committee of the Institute of Electrical and Electronics  
Engineers Computational Intelligence Society (member since 2012)

**Major grants in the last 10 years**

2014-2018. "EvoSN: evolution of spiking neural networks for fundamental computational tasks and  
robot control" (Polish National Science Centre)  
2012-2017. "BIOEMERGE: Emergence of robustness to noise and damage in gene regulatory networks  
and developmental processes" (Polish National Science Centre)  
2009-2011. "Evo-devo in silico: evolution of gene regulatory networks regulating 3-dimensional  
development" (Polish Ministry of Higher Education and Science)  
2010-2011. "Biodiversity of arctic bacteria and their viruses: metagenomics in the investigation of  
diversity" (Polish Ministry of Higher Education and Science)  
2008. "The diversity of the viral communities and metagenomic search for antibacterial and antibiofilm  
activities in the virus genomes from the arctic seas" (Census of Marine Life / Arctic Ocean Diversity,  
Polish Ministry of Higher Education and Science)  
2008-2010. "Computationally efficient methods in phylogenetic analysis and other clustering problems  
in biology (Polish Ministry of Higher Education and Science)  
2007-2010. "Enzymatic activities carried by bacterial viruses in decay processes in the sea" (Polish  
Ministry of Higher Education and Science)  
2005-2006. "Development of tools for the analysis of molecular clock and their application for a case of  
Hepatitis Virus epidemics with known infection history" (European Commission and Polish Ministry of  
Higher Education and Science)

## **Supervision of PhD students:**

### Current students:

Joachim Erdei (computer science, enrolled at the Technical University of Gdańsk),  
Chama Bensmail (computer science, enrolled at the University of Hertfordshire),  
Muhammad Yaqoob (computer science, enrolled at the Adam Mickiewicz University in Poznań),  
Aamir Khan (computer science, enrolled at the Adam Mickiewicz University in Poznań),  
Imran Zafar (computer science, enrolled at the Adam Mickiewicz University in Poznań)

### Former students:

Aleksandra Czarna (graduated 3 Dec 2010, PhD cum laude in biology/computational biology, University of Gdańsk, rewarded Polish Prime Minister Award for exceptional PhD dissertation),  
Michał Joachimczak (graduated 20 Nov 2012, PhD cum laude in computer science/artificial intelligence, Technical University of Gdańsk),  
Alessandro Fontana (graduated 16 Nov 2012, PhD cum laude in computer science/artificial intelligence, Technical University of Gdańsk),  
Joanna Całkiewicz (graduated 21 Feb 2014, PhD cum laude in biology/computational biology, University of Gdańsk),  
Agata Jurczak-Kurek (graduated 14 Nov 2014, PhD in biology/microbiology, University of Gdańsk),  
Ahmed Abdelmotalieb (graduated 29 Sep 2015, PhD in computer science, University of Hertfordshire)