



## Curriculum Vitae

Surname Chimiak–Opoka  
First name Joanna Dobrosława  
Title Ph.D. Eng.  
Date of birth 1974–05–14  
Place of birth Szczecin (Poland)  
Nationality Polish  
Marital status married, childless

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## Education

2000–2002 Technical University of Szczecin (PS), Faculty of Computer Science

- title: **Philosophy Doctor, Engineer**
- specialisation:

*Artificial Intelligence, Multidimensional Modelling*

- Ph.D. Thesis:

*The method for input selection for models of multidimensional systems using artificial intelligence methods for dimensionality reduction*  
(in Polish)

- first class honours

1993–1998 Technical University of Szczecin (PS), Institute of Computer Science

- title: **Master of Science, Engineer**
- specialisation:

*Software — Banking systems*

- title of Master Thesis:

*Minimisation and classification algorithm for logic functions using information theory* (in Polish)

- final degree: *very good*
- two *scholarships of Minister of Education* for high degrees (1996/97, 1997/98)
- *student assistant* in Institute of Computer Science (one year: 1996/97 summer semester + 1997/98 winter semester)
- 2 gold, 1 silver and 5 bronze medals for the University team on *Polish Academic Championships* in Athlete and Cross–Country (1994 – 1999)
- *Technical University of Szczecin (PS) Chancellor’s congratulations letters* for very good results at studies in academic year 1993/94 (the first year of study) and in next years for study, scientific (4 times) and sport (2 times) results

## Research work

- 2003–2010 supervisor : *prof. Ruth Breu*  
field : **model engineering**  
main paper : J. Chimiak–Opoka. OCLLib, OCLUnit, OCLDoc: Pragmatic Extensions for the Object Constraint Language. In Andy Schuerr and Bran Selic, editors, *Model Driven Engineering Languages and Systems, 12th International Conference, MODELS 2009, Denver, Colorado, USA, October 4-9, 2009, Proceedings. LNCS 5795*, pages 665–669. Springer Verlag, 2009.
- 2000–2003 supervisor : *prof. Andrzej Piegat* (supervisor of Ph.D. Thesis)  
field : **multi–variable modelling**  
main paper : J. Chimiak–Opoka, *New Index of Significance for Inputs Selection*. In Kacprzyk Rutkowski, editor, *Advances in Soft Computing*, Proceedings of the Sixth International Conference on Neural Network and Soft Computing, Zakopane, Poland, June 11–15, 2002, pages 292–297. Physica–Verlag.
- 1996–1999 supervisor : *prof. Włodzimierz Shmerko* (supervisor of M.Sc. Thesis),  
: *prof. Swietłana Januszkiewicz*  
  
field : **multi–valued logic**  
main paper : J. Chimiak, J. Kołodziejczyk and M. Opoka, *Synthesis of combinational binary circuits based on GA with entropy evaluation*, Short Course on Evolutionary Algorithms in Engineering and Computer Science — Eurogen’99 (Jyväskylä, Finland), 1999, pp. 28–32  
  
field : **banking telecommunications systems**  
main paper : G. Hołowiński, K. Małecki, J. Kołodziejczyk, J. Chimiak and D. Popel, *Some aspects of analysis of financial telecommunication systems*, Proc. of 2nd International Workshop on Banking Information Technologies & Financial Telecommunication — BIT&FT’99 (Szczecin, Poland) (W. Shmerko and G. Hołowiński, eds.), 1999, Nov., pp. 33–44
- 1997 supervisor : *prof. Georgi Kuchariew*  
field : **pattern recognition**  
main paper : M. Borawski, J. Chimiak and G. Kuchariew, *The method of personal identification based on the iris image recognition*, Proc. of the Int. Conf. on Application Computers Systems — ACS’97 (Szczecin, Poland) (J. Soldek, ed.), 1997, pp. 78–85

The complete list of publications is available on–line at <http://joanna.opoki.com/>.

## Research projects

- 2009.10–now as **senior researcher** in the QE LaB—Quality Engineering Laura Bassi Lab
- 2008.02–2010.01 as **senior researcher** in the TELLING TESTSTRIES project funded by TransIT and SoftMethod GmbH. A co–operation project with SoftMethod GmbH on model based quality assessment of complex cooperative systems by model driven acceptance testing.
- 2006.05–2010.04 as **scientific lead, senior researcher** in the MODELS@WORK project funded by BMWA. The project #5 in the SoftNet—private research association cooperating with business and university partners to conduct and promote applied research in software engineering. The focus on development of methods and tools to assure and asses project specific quality of models.
- 2004.05–2006.02 as **researcher** in the MEDFLOW—Modeling and Evaluation of Socio–technical Processes in Health Care project funded by HITT (health information technologies tirol). A co–operation with UMIT and ITH on fusion of technical and socio-organizational views of processes and evaluation on appropriate case studies from clinical practice.

She is currently enrolled in a **training as manager of third–party funding** at the University of Innsbruck (2 courses completed) and participated in **FWF coaching** Workshop.

## Research activities

- **reviewer** (PC) of: special issue of SoSyM on Model Based Interoperability (2010), editorial board member (since 2009) of Studies and Materials in Applied Computer Science (in Polish) IT’2010, MSM’2007; member of Editorial Board of Studies and Materials in Applied Computer Science, ISSN 1689-6300; additional reviewer (or delegated) of: MeDeVVa’2010, SEAA’2010, SEAA’2009, CVSM’2009, FASE’2009, ICSOC’2008, ISTA’2008, FASE’2008,

SoSyM, MoDELS'2007, MeDeVva'2007, SEA'2005, SEUH'2005, Modellierung'2004, UML'2004, CSDUML'2004, CSDUML'2003

- **Finance Chair** of MODELS'2012 (ongoing work)
- **member of organisation committees:** OCL 2009 Workshop, Denver, USA; *Pattern Recognition and Information Processing*, Minsk, Belarus — PRIP'99; *Advanced Computer Systems*, Szczecin, Poland— ACS'97, ACS'98, ACS'99; *Banking Information Technology and Financial Telecommunication*, Szczecin, Poland— BIT&FT'96 (technical committee), BIT&FT'99 (PS)

## Didactic work

An **academic teacher** since 1996/97 (computer laboratories, classes, projects) in different fields: artificial intelligence, logic design, programming and software development (among others: neural networks, fuzzy systems, digital elements and logic circuits, bases of informatics, bases of software — in Polish software development 3 and 4 — in German, information security, ... — in English).

An **academic lecturer** since 2005/06 in the field of formal specification and modeling (in English): semantics of programming languages, formal specification and verification, selected topics of software engineering, model engineering.

- **pedagogic courses:**
  - internal at Technical University of Szczecin (PS)
  - didactic skill enhancement courses at University of Innsbruck (UIbk), a.o. *"Lehren Lernen"* *Lehrgang* with a final project published at *Schaufenster Lehre*.
- **member of institute curricula commission** — (2005–2007, UIbk),
- **didactic coordinator** in research group Quality Engineering (2003–2010, UIbk),
- coordinator of **Erasmus** student exchange programme at Institute of Computer Science (2004, UIbk)
- **member of university commission** of Polish-wide contest for the best students — *Primus Inter Pares* (2000/01, 2001/02, PS) , **member of faculty commission** supervising entrance examination (1999/2000 – 2002/03, PS).

## Qualifications

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|--------------------------|--|
| <b>Foreign languages</b> | English (advanced), German (advanced)  |
| <b>Modelling</b>         | UML + OCL, Z Notation, CASL, Alloy   |
| <b>Programming</b>       | PHP, Bash, HTML, MySQL   |
| <b>Other</b>             | L <sup>A</sup> T <sub>E</sub> X , B <sup>I</sup> B <sub>T</sub> E <sub>X</sub> |
| <b>OS know-how</b>       | Linux/Debian   |

## Professional experience

### University of Innsbruck (UIbk), Institute of Computer Science

www <http://qe-informatik.uibk.ac.at/>  
Position post-doc  
Employment partial and full time  
Duration from August 1., 2003 till December 31., 2011

### Technical University of Szczecin (PS), Faculty of Computer Science

www <http://www.wi.ps.pl/>  
Position assistant  
Employment full time  
Duration from Oktober 1., 1998 to February 28., 2003  
from March 1., 2003 to October 15., 2003 — unpaid leave

### Computer Mathematical School MATCOMP

Company profile computer courses  
www <http://www.matcomp.com.pl/>  
Range of duties professional training in using computer programs such as Microsoft Office, Corel Draw and OS Windows  
Employment part time  
Duration 2 years

### FiberNet

Company profile Internet Service Provider  
www <http://www.fiber.net.pl/>  
Position senior programmer  
Range of duties – designing databases structures  
– programming Internet portals (PHP + MySQL + PHP Lib)  
Achievements – participation in creation of fully automatic web-hosting system:  
<http://www.powerweb.pl/>  
– experience in designing and creating Internet portals using PHP,  
PHP Library and MySQL database  
Employment part time  
Duration 1.5 years

### Hobby

*Privately continuously discovering the beauty of the nature and searching for the depths of body and mind by exploring effective, effortless and injury-free approaches to human activities, such as chi running, total immersion swimming, yoga and meditation.*