

CURRICULUM VITAE

(January 2024)



Personal data:

Family name: **TARLECKI**
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Born: May 10, 1956, Knyszyn, Poland
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Scientific degrees and titles:

1998: **Professor** of mathematical sciences, scientific title awarded by the President of the Republic of Poland
1987: **D.Sc.** (*doktor habilitowany*) in computer science, Institute of Computer Science, Polish Academy of Sciences
1982: **Ph.D.** in computer science, Institute of Computer Science, Polish Academy of Sciences
1979: **M.Sc.** in computer science, Faculty of Mathematics, Informatics and Mechanics, University of Warsaw

Employments:

since 1992: University of Warsaw; professor extraordinarius, and since 2000 professor ordinarius, Institute of Informatics
1982-2012: Institute of Computer Science, Polish Academy of Sciences; subsequently mathematician, senior assistant, assistant professor, docent, and professor; since 1997 part-time employment
1979-1982: Doctoral Studies, Institute of Mathematics and Institute of Computer Science, Polish Academy of Sciences, Warsaw; PhD student
since 1983: several longer (two months or more) scientific stays abroad, including stays at the universities of Edinburgh, Manchester, Lyngby, Bergen, Linköping, ENS Paris and Cachan, Stanford and McMaster Universities, and University of Illinois at Urbana-Champaign

Selected functions:

2020-2024: chair of the Academic Council of Mathematics and Computer and Information Sciences, UW
2020-2024: member of Senate Law & Statute Committee, UW
2016-2020: Vice-rector for human resources and financial policy, UW
2012-2016: Dean of the Faculty of Mathematics, Informatics and Mechanics, UW
2012-2016: chair of the Council of the Warsaw Center for Mathematics and Computer Science
2011-2014: member of the Committee on Informatics, Polish Academy of Sciences
2011-2012: member of the Central Committee for Scientific Degrees and Titles
2008-2018: chair of the Scientific Council of the Institute of Computer Science, Polish Academy of Sciences
2008-2016: member of Senate Committee for Human Resources Policy, UW
2005-2012: chair of the Faculty Committee for Human Resources, Faculty of Mathematics, Informatics and Mechanics, UW
2005-2012: chair of the Council of the Institute of Informatics, UW
2004-2012: chair of the Council of Witold Lipski Award (honorary chair since 2013)
2004-2012: expert of the Polish Accreditation Committee for studies in informatics and mathematics
2000-2015: member of several evaluation panels for computer science, Scientific Research Committee and National Science Centre
1996-2005: director of the Institute of Informatics, UW

Affiliation in international scientific organisations:

- Academia Europea (since 2006)
- European Association for Theoretical Computer Science (EATCS, council member 2003-2011)
- European Association of Software Science and Technology (EASST)
- IFIP Technical Committee 1 “Foundations of Computer Science” (since 2002)
- IFIP Working Group 2.2 “Formal Description of Programming Concepts” (since 1987; scientific secretary 1995-2002)
- IFIP Working Group 1.3 “Foundations of Software Specification” (since 1991, founding member)

Editorial activities:

- 1990-2018: Fundamenta Informaticae
- since 1998: Information Processing Letters, managing editor, since 2020 honorary editor
- 2004-2018: Logical Methods in Computer Science
- since 2006: Electronic Communications of the EASST
- since 2013: Categories and General Algebraic Structures with Applications

Participation in international conferences:

- Over 80 presentations at international scientific conferences, including 9 prestigious plenary lectures and 4 lecture series at international summer schools.
- Programme committee member for more than 50 international conferences, chair for 7 of them.
- Member of the steering committees of WADT (1995-2018), ETAPS (2001-2004), CALCO (2004-2018).

Selected research results:

- Development of theoretical foundations for formal specification and systematic construction of software systems, including generalisation, clarification and basic results concerning such notions as specification structure, modularisation mechanisms for specifications and software systems, behavioural equivalences, specification refinement and implementation, parameterisation, etc; monograph “*Foundations of Algebraic Specification and Formal Software Development*” (Springer-Verlag, 2012, i-xvi, 1–581, coauthor: D. Sannella).
- Development of the theory of institutions (a formalisation of the concept of logical system) and its applications in foundations of formal specification and software development and in abstract model theory.
- Participation in the development of *Common Algebraic Specification Language* CASL, a specification formalism; one of the key roles in the international group that carried this project out; definition of the mathematical semantics of CASL and introduction of the concept of architectural specification.
- Development (jointly with D. Sannella) of the formalism EXTENDED ML for formal specification and development of functional programs in STANDARD ML.
- Development (jointly with A. Blikle) of the “naive” model for denotational semantics of programming languages.

Publications:

- Over 80 publications in international journals and refereed proceedings of international conferences.
- Editor of a dozen or more collected volumes.
- Over 5000 citations, h-index 38 (Google Scholar, January 2024).

Research projects:

- Over 20 research projects, with total budget about 1.5 mln EUR – grant holder for Polish grants, Polish site leader in international consortia for European research projects (since 1992).

PhD supervision:

- Paweł Grzegorzewicz, “A Method for Formal Development of Deadlock-free Concurrent Programs”, 1996.
- Sławomir Lasota, “Algebraic Observational Equivalence and Open-map Bisimilarity”, 2000.
- Wiesław Pawłowski, “Context Institutions in Foundations of Software Specification and Development” 2000.
- Tomasz Borzyszkowski, “Logical Systems for Structured Specifications” 2000.
- Piotr Hoffman, “Architectural Specifications and their Verification”, 2005.
- Mikołaj Konarski, “Application of Category-Theory Methods to the Design of a System of Modules for a Functional Programming Language” 2007.
- Jędrzej Fulara, “Abstract Analysis of Numerical and Container Variables”, 2013.
- Grzegorz Marczyński, “Specifications of Software Architectures using Diagrams of Constructions”, 2015.
- Michał Przybyłek, “Analysis and Construction of Logical Systems: A Category-Theoretic Approach”, 2017.