

CURRICULUM VITAE

- ***Full name***

Maria Mihaylova Nisheva-Pavlova

- ***Date and place of birth***

26 May 1958, Sofia, Bulgaria

- ***Current academic position***

Professor, Department of Computer Informatics,
Faculty of Mathematics and Informatics (FMI),
Sofia University St. Kliment Ohridski

- ***Education***

1979 B.Sc. in Mathematics, Sofia University
1981 M.Sc. in Computer Science, Sofia University. Thesis title: "Experiments in
Functional Programming"
1982 - 1985 Ph.D. student, Centre of Mathematics - Bulgarian Academy of Sciences and Sofia
University. Thesis title: "Computer Algebra System for Continued Fractions
Manipulation"
1988 Ph.D. in Computer Science

- ***Specialisations***

1992 University of Sussex and Brighton Polytechnic, Brighton, UK. Area: Knowledge
Based Systems
1994 University of Brighton and University of Sussex, Brighton, UK. Area: Knowledge
Based Systems
2001 Polish-Japanese Institute of Information Technology, Warsaw, Poland. Area:
Advanced Information Technologies
2005 Copenhagen University, Copenhagen, Denmark. Area: Digitisation of Scientific
and Cultural Heritage

- ***Work experience***

1981 - 1982 Mathematician, INTERPROGRAMA Institute
1985 - 1988 Research Fellow, Institute of Mathematics, Bulgarian Academy of Sciences,
Department of Artificial Intelligence
1988 - 1990 Assistant Professor, Sofia University, FMI, Educational Microcomputer
Laboratory
1990 - 1991 Senior Assistant Professor, Sofia University, FMI, Educational Microcomputer
Laboratory
1991 - 1994 Senior Assistant Professor, Sofia University, FMI, Department of Computer
Informatics
1994 - 1999 Chief Assistant Professor, Sofia University, FMI, Department of Computer
Informatics

1999 - 2013 Associate Professor, Sofia University, FMI, Department of Computer Informatics
 2004 - 2009 Associate Professor, Institute of Mathematics, Bulgarian Academy of Sciences, Humanities Informatics Department
 since 2013 Professor, Sofia University, FMI, Department of Computer Informatics
 since 2014 Professor, Institute of Mathematics, Bulgarian Academy of Sciences, Department of Software Technologies and Information Systems

- ***Administrative positions***

since 2002 Director of Studies, Artificial Intelligence M.Sc. Programme at FMI
 2004 - 2007 Head of Department of Computer Informatics – FMI
 2007 - 2015 FMI Vice Dean of Student Affairs – Master Degree
 2016 - 2020 Head of Department of Computer Informatics – FMI
 since 2019 FMI Vice Dean – PhD studies, mobilities and project activities

- ***Teaching experience***

- ***Academic courses at BSc, MSc and PhD level:***

Artificial Intelligence, Functional Programming, Logic Programming, Problem Oriented Languages, Computer Algebra Systems, Knowledge Based Systems, Expert Systems, Knowledge Representation and Reasoning, Knowledge Bases, Semantic Technologies, Machine Learning

- ***Supervising MSc student projects:***

Supervisor of more than 70 successfully defended MSc student projects in different areas of Computer Science

- ***Supervising PhD projects:***

Supervisor of 11 PhD projects (three of them defended successfully)

- ***Research areas***

Artificial Intelligence, Computer Algebra Systems, Knowledge Based Systems, Semantic Technologies, Digital Libraries, Machine Learning, Data Mining, Information Retrieval, Bioinformatics

- ***Project activities***

1991 - 1994 TEMPUS JEP 1497 "Transfer of Knowledge-Based System Skills to Bulgaria"
 1994 - 1996 TEMPUS JEN 1497 "Transfer of Knowledge-Based System Skills to Bulgaria"
 1995 - 1998 National Science Fund Project I-502/95 "Advanced Information and Communication Technologies in Education: Application of Artificial Intelligence Methods; Multimedia and Distance Learning"
 1995 - 1998 National Science Fund Project I-520/95 "Development and Application of Software Packages for Computer Algebra"
 1999 National Science Fund Project V RP-I-5/99 "Representation, Processing and Exchange of Knowledge Using Computer Algebra Systems"
 2000 - 2003 National Science Fund Project I-1002/2000 "Computer Algebra Tools for Mathematics Education"
 2003 National Science Fund Project IS-03 "Web-based Computations and Visualization"

- 2004 - 2008 FP6 Project “Knowledge Transfer for the Digitisation of Scientific and Cultural Heritage to Bulgaria”
- 2006 - 2010 National Science Fund Project VU-MI-204/2006 “Intelligent Sensory Systems for Security Enhancement”
- 2008 - 2009 FP7 Project “Strengthening the IST Research Capacity of Sofia University”, WP leader
- 2009 - 2013 National Science Fund Project DTK 02/54 “Information Technologies for Presentation of Bulgarian Folk Songs with Music, Notes and Text in a Digital Library”, leader of FMI team
- 2014 - 2019 National Science Fund Project DFNI-I02/7 “Methods for Data Analysis and Knowledge Discovery in Big Sequencing Datasets”, project leader
- 2015 - 2017 Horizon 2020 Project “ER4STEM – Educational Robotics for Science, Technology, Engineering and Mathematics”
- 2016 - 2020 National Science Fund Project DN02/9 “GloBIG: A Model of Integration of Cloud Framework for Hybrid Massive Parallelism and its Application for Analysis and Automated Semantic Enhancement of Big Heterogeneous Data Collections”, WP leader
- 2018 - Project BG05M2OP001-1.001-0004 “Universities for Science, Informatics and Technologies in eSociety”, WP leader
- 2019 - 2021 National Scientific Program “Information and Communication Technologies for a Single Digital Market in Science, Education and Security”, task leader
- 2019 - 2021 National Scientific Program “eHealth in Bulgaria”, task leader
- 2020 - COST Action CA19122 “European Network for Gender Balance in Informatics”, MC member
- 2020 - Project “EuroCC – National Competence Centres in the framework of EuroHPC” funded by the European High-Performance Computing Joint Undertaking
- 2022 - Project EUMaster4HPC, Grant agreement No. 101051997 (2022 – 2025)

- ***Publications***

More than 110 papers in the fields of Computer Algebra Systems, Functional Programming, Knowledge Based Systems, Digitisation of Scientific and Cultural Heritage, Semantic Technologies, Digital Libraries, Data Analysis, Machine Learning, Bioinformatics; one monograph and three academic textbooks

- ***Languages***

Native Bulgarian, very good command of English and Russian, basic level in German

- ***Contact Information***

- ***Official address:***

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Sofia University
5, James Bourchier blvd.
1164 Sofia, Bulgaria

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