



Dr **Michal J. Dabrowski** holds a PhD in Biological Sciences and is an Assistant Professor at the Institute of Computer Science, Polish Academy of Sciences, where he has led the Computational Biology Group since 2017. He completed a postdoctoral fellowship at Uppsala University. He has been on the Board of the Polish Bioinformatics Society since 2020 and currently holds the position of Secretary.

His research focuses on the biological interpretation of high-dimensional data, particularly transcriptomic, epigenomic, and single-cell datasets. He develops and applies analytical workflows for feature selection, identification of interactions between informative

variables, and functional interpretation of molecular signals. His work covers gene regulation in gliomas and other cancers, population genetics, and machine learning and natural language processing in rare disease diagnosis. His research has been published in journals including *Nature Communications*, *EMBO Reports*, *Clinical Epigenetics*, *Scientific Reports*, *Acta Neuropathologica Communications*, *Cancer Letters*, and *npj Digital Medicine*.

At Saventic Health, he leads research projects and actively contributes to two FENG/PARP R&D projects: he is the R&D Lead in one and Lead Data Scientist in the other. He also teaches R programming, statistics, bioinformatics, transcriptomics, and epigenomics to doctoral students and biomedical researchers, emphasising practical analysis, reproducibility, and critical interpretation.



Dr. **Joanna Żyła** obtained her PhD in Biocybernetics and Bioengineering with a specialization in Bioinformatics, focusing her thesis on statistical methods in complex population genetic data. She completed a postdoctoral fellowship at the Department of Immunology in the Max Planck Institute for Infection Biology and currently is an Assistant Professor at the Department of Data Science and Engineering, Silesian University of Technology, Poland.

Her research focuses on bioinformatics, biostatistics, statistical machine learning, and the integrative analysis of high-throughput biological data. She develops advanced computational methods for gene set analysis, and multi-omics integration to better understand complex biological processes. Her work directly supports clinicians and molecular

biologists by translating complex data.

Dr. Żyła actively collaborates with prominent Polish medical institutions, such as the Medical University of Gdańsk and the Maria Skłodowska-Curie National Research Institute of Oncology in Gliwice, as well as numerous international research centers, primarily in Germany and France. Her research findings have been published in top journals, including *Nature Communications*, *EMBO Journal*, *Bioinformatics*, *EClinicalMedicine*, *American journal of respiratory and critical care medicine* and *Computational and Structural Biotechnology Journal* among others.

As an academic employee, she also has extensive experience teaching statistics, bioinformatics, machine learning, and programming.



Dr **Przemysław Tomczyk** holds a PhD in Economics, specialising in Management Sciences. A graduate of the SGH Warsaw School of Economics, he is an Assistant Professor in the Department of Marketing at Kozminski University. He has also taught as a visiting lecturer at ESCP Europe in Paris, Warsaw University of Technology, and the SGH Warsaw School of Economics.

His expertise covers artificial intelligence in academic research, academic writing, data analysis, research methodology, and the automation of research processes. He is the author and co-author of articles published in international journals, including the *Journal of Business Research*, *Journal of Librarianship and Information Science*, *Journal of Research in Interactive Marketing*, *EuroMed Journal of Business*, *International Journal of Artificial Intelligence Tools*, and *Journal of Marketing Analytics*. He has also received a research grant from the National Science Centre, Poland (NCN).

Dr Tomczyk delivers courses and professional training on applying generative AI, data analysis, and workflow automation. He is the creator of the YouTube channel [dr Przemek Tomczyk AI](#), where he shares guidance on using artificial intelligence in research and professional practice. He teaches in Polish and English across undergraduate, postgraduate, and executive education programmes, combining academic knowledge with hands-on experience of AI tools.



Prof. **Magdalena Chechlińska**, PhD, is Head of the Laboratory of Cancer Biology at the Department of Experimental Oncology, Maria Skłodowska-Curie National Research Institute of Oncology in Warsaw, Poland (MSCI). She received her MSc in Biology from the University of Warsaw and her PhD and habilitation degrees from MSCI. Her research focuses on the cancer microenvironment, cytokines, microRNAs, and, in particular, cancer biomarkers. She has received the Jędrzej Śniadecki Memorial Award, a prestigious distinction granted by the Medical Sciences Division of the Polish Academy of Sciences, for a series of publications on cancer biomarkers. She conceived and led the development of ONKOSYS, a comprehensive IT platform

supporting cancer research at MSCI, funded through a €6 million EU grant. More recently, she completed a €2.77 million Horizon Europe project aimed at mapping and synthesising available evidence to support the WHO Classification of Tumors. She serves as Editor-in-Chief of Tumor Biology and is a member of the Editorial Boards of BMC Cancer and Contemporary Oncology. She is also Chair of the Scientific Board of the Children's Memorial Health Institute in Warsaw.



Dr **Bartosz Wojtaś** holds a PhD in medical sciences and a habilitation in biological sciences and is Head of the Laboratory of Sequencing at the Nencki Institute of Experimental Biology, Polish Academy of Sciences, a position he has held since 2021. He completed his PhD within the International PhD Programme “Molecular Genetics, Transcriptomics and Bioinformatics in Cancer” and gained international research experience through a Marie Curie Early Stage Research Fellowship at Hospital Clinic in Barcelona, a research internship at the University of Leipzig, and a NAWA Bekker Programme fellowship at McGill University in Montreal.

His research focuses on computational genomics, transcriptomics, single-cell RNA sequencing, regulatory genomics, epigenomics, and integrative multi-omics analysis. He combines computational approaches with next-generation sequencing technologies to investigate molecular and cellular states, gene regulatory networks, chromatin accessibility, DNA methylation, and molecular signatures of human disease, with particular expertise in gliomas and other neurological disorders. He is also involved in the development and implementation of advanced sequencing workflows and single-cell technologies.

Dr Wojtaś has authored or co-authored 75 publications in PubMed-indexed journals, with research published in journals including *Nature Communications*, *Blood*, *Clinical Epigenetics*, *Cancer Letters*, *International Journal of Cancer*, *Rheumatology*, *Neurobiology of Disease*, *Scientific Reports*, and *Cancers*. His work spans single-cell and bulk transcriptomics, regulatory networks, cancer genomics, epigenetic regulation, and molecular mechanisms of neurological disease. He is also a co-inventor on four patent applications concerning predictive molecular markers and precision approaches in epilepsy and glioma.

In addition to his research and core-facility leadership, Dr Wojtaś has experience in PhD supervision and scientific teaching. He regularly gives invited lectures and teaches topics related to transcriptomics, single-cell data analysis, DNA methylation, genomics, and multi-omics, with a strong emphasis on integrating experimental sequencing technologies with computational analysis.



Dr **Marta Jordanowska-Kotuniak** is a researcher in the Computational Biology Group at the Institute of Computer Science, Polish Academy of Sciences. She obtained her PhD in Biological Sciences from the Institute of Biochemistry and Biophysics, Polish Academy of Sciences. Her doctoral research used bioinformatics approaches to investigate the role of transcription factors in oncogenesis. A substantial part of this work was conducted within the SYMFONIA 3 project funded by the National Science Centre. Her academic background is in molecular biophysics, which she studied at the Faculty of Physics, University of Warsaw, before specialising in computational approaches to molecular biology.

Her research lies at the intersection of computational biology, regulatory genomics, and cancer biology, with a particular focus on transcription factors and the mechanisms governing gene regulation in cancer. She has studied transcription factor regulatory networks in gliomas and epigenetic regulatory elements associated with breast cancer development. Her work integrates transcriptomic and epigenomic data, including gene expression, transcription factor binding patterns and chromatin accessibility, to characterize how regulatory programs are altered during tumorigenesis.



Dr **Michał Damiński** is an Assistant Professor at the Institute of Computer Science of the Polish Academy of Sciences (IPI PAN). He graduated with honors (M.Sc.) from the Warsaw University of Technology and began his research career as a Visiting Researcher at George Mason University, where he worked in the group led by Professor Ryszard Michalski, one of the pioneers of Machine Learning. In 2008, he earned his Ph.D. at IPI PAN with a dissertation on feature selection for high-dimensional data, introducing the MCFS (Monte Carlo Feature Selection) algorithm. He has authored more than 30

scientific publications and developed several machine learning algorithms and R packages. His expertise spans machine learning and artificial intelligence, including classification, feature selection, clustering, NLP, LLMs, fraud detection, time-series analysis, parallel computing, big data, and recommendation systems. With more than 20 years of experience across both academia and industry, he has led and contributed to data science initiatives as both a Data Scientist and Principal Scientist for organizations including NuTech Solutions, Netezza, IBM, and iQor Polska. Since 2018, his work has focused primarily on large-scale recommendation systems. At BAMTech Media and Disney Streaming Services, he designed and implemented intelligent, adaptive recommendation and user segmentation algorithms for MLB, ESPN, HBO, and Disney+. He later led the development of a suite of recommendation algorithms at SiriusXM, one of North America's leading subscription-based audio entertainment companies. He recently joined Salesforce, where he focuses on next-generation recommendation systems and LLM-powered AI solutions.