
Employment

- since Sep 2025 **Adjunct in Medical Informatics**, Wrocław University of Science and Technology, Poland
- Apr 2019 - Aug 2025 **Postdoctoral researcher in Infectious Diseases**, in group of Prof. Evelina Tacconelli, University of Verona, Italy
- Sep 2013 - Mar 2019 **PhD student in Algorithms for Bioinformatics** group of Prof. Daniel Huson, Center for Bioinformatics Tübingen
- Sep 2013 - Jan 2019 **PhD program International Max Planck Research School From Molecules to Organisms**, Max Planck Institute for Developmental Biology and University of Tübingen, Germany
- 14 Mar - 20 Apr 2016 **Internship in Prof. Mihai Pop's group**, Center for Bioinformatics and Computational Biology, University of Maryland, USA
- Jul – Sep 2012 **Internship in Prof. Andrew J. McCammon's group**, University of California San Diego, USA
- Jun 2011 - Sep 2013 **Graduate student fellowship in the TEAM project**, co-founded by The Foundation for Polish Science at Biomolecular Machines Laboratory, supervised by Prof. Joanna Trylska, Centre of New Technologies Ochota, University of Warsaw, Poland
- 2009 - 2010 **Internship in Prof. Janusz Bujnicki's group** at Laboratory of Bioinformatics and Protein Engineering, International Institute of Molecular and Cell Biology, Warsaw, RNA structure modeling

Education

- Feb 2019 **PhD degree with Summa cum laude in Bioinformatics**, Bioinformatics approaches to study antibiotics resistance emergence across levels of biological organization., Center for Bioinformatics, Faculty of Science, University of Tübingen, Germany
- Nov 2013 **MSc degree with Very Good in Macro-field of Study, Bioinformatics and Systems Biology**, Faculty of Mathematics, Informatics and Mechanics, University of Warsaw, Poland
- Sep 2011 **BSc degree in Macro-field of Study, Bioinformatics and Systems Biology**, Faculty of Mathematics, Informatics and Mechanics, University of Warsaw, Poland

Grants

awarded August 2026 **Risk-guidEd preVentIon of long-term cardioVascular sEque-lae post Community-Acquired Pneumonia (REVIVE-CAP)**, *HORIZON-HLTH-2026-01*, Work-Package co-lead

Committees and working groups

- since March 2026 **Programme committee of the Medical Informatics**, *Wrocław University of Science and Technology*
- since 2025 **Co-chair, Cohort Coordination Board (CCB) AI working group**, *Leading the research into application of Artificial Intelligence to enhance observational cohort research in infectious diseases.*
- since 2024 **Participant, Cohort Coordination Board (CCB) Post-Infective Syndrome (PAIS) working group**, *Participated in the Post-Infective Syndrome working group chaired by prof. José L. Peñalvo, led the work on standardisation of the variables to study post-covid-condition.*
- 2021-2025 **Chair , ORCHESTRA Work-Package 2 working group on the Post-COVID condition**, *Leading and coordinating the analysis of the data collected by the prospective study on the post-COVID-19-condition.*

International projects

- since June 2024 **COMECT**, *Management of the development of the Central Data Repository*
- since June 2024 **VERDI**, *Development of the automated mapping of the cohort studies in Europe. Standardization and harmonisation of the clinical data questionnaires.*
- 2021 - 2024 **ORCHESTRA**, *Member of the coordination work package delegated to working with the data-management and statistical work-packages, and coordination of the analysis of the COVID-19 long-term-sequela cohort data*
- 2019 - 2024 **ValueDX**, *Development of the clinical algorithm for diagnosis of the community acquired respiratory-tract infections.*
- 2021 - 2021 **BLOOMY**, *Development of the machine-learning-based variable selection for prediction of sepsis in the hospitalized patients.*
- 2015 - 2019 **Saturn**, *Development of the machine-learning methodology to measure impact of the antibiotic therapy on the carriage of the extended-spectrum beta-lactamases (ESBLs)*

Proprietary online tools

- 2025 **InfeInfo toolkit**, <https://infeinfo.pwr.edu.pl/>
- 2025 **CDR**, <https://cohortcoordinationboard.eu>
- 2024 **Value-Dx**, <https://ca-valuedx.ddsp.univr.it>
- 2016 **RiboScanner**, <http://riboscanner.cent.uw.edu.pl>

Conferences and workshops

- 17-21 Apr 2026 **36th Congress of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID Global 2026)**, *Poster presentations: FAIR-aligned, AI-assisted ontology for infectious disease studies to accelerate evidence generation for pandemic preparedness response*, Munich, Germany
- 25-26 Sep 2025 **1st Cohort Coordination Board Workshop (CCB)**, Rome, Italy
- 11-15 Apr 2025 **35th Congress of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID Global 2025)**, *Poster presentations: Automating Systematic Reviews and Meta-Analyses: A Framework for Living Evidence Synthesis in Infectious Diseases, and ORCHESTRA interactive clinical algorithm to predict the patient-level post-COVID symptoms up to 24 months post-acute disease based on the Latent-Transition-Analysis model*, Vienna, Austria
- 25-29 Aug 2024 **Medical Informatics Europe Conference (MIE2024)**, *Oral presentation: Towards Autonomous Living Meta-Analyses: A Framework for Automation of Systematic Reviews and Meta-Analyses*, Athens, Greece
- 27-30 Apr 2024 **34th Congress of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID Global 2024)**, *Oral presentation: Latent Transition Analysis accurately describes post-COVID condition dynamics: at 3, 6, 12, and 18 months. Results from the Orchestra prospective international cohort, and a poster flash presentation: Developing meta-analysis-based clinical algorithm to diagnose the etiology of community-acquired acute respiratory tract infections in adults*, Barcelona, Spain
- 15-17 Jan 2018 **Asia Pacific Bioinformatics Conference (APBC2018)**, *Oral presentation: Dynamics of the human gut phageome during antibiotics treatment.*, Yokohama, Japan
- 12-15 Sep 2016 **German conference in Bioinformatics**, *Oral presentation: Bioinformatics support for the Tübiom community gut microbiome project*, Berlin, Germany
- 18-20 May 2016 **Congress: Personalised Medicine - Data - Diagnosis - Decisions**, *Best poster award for Estimating the association between antibiotic exposure and colonization with extended-spectrum β -lactamase-producing Gram-negative bacteria using machine learning methods*, Tübingen, Germany
- 22-27 Nov 2015 **Biological Data Visualization Workshop**, Leuven, Belgium
- 25-28 Apr 2015 **European Congress of Clinical Microbiology and Infectious Disease (ECCMID2015)**, *Oral presentation: Estimating the association between antibiotic exposure and colonization with extended-spectrum β -lactamase-producing Gram-negative bacteria using machine learning methods*, Copenhagen, Denmark
- 21-27 Jun 2015 **Bioinformatics student exchange to the CBCB in University of Maryland, Maryland, USA**
- 17-22 Jul 2016 **Bioinformatics Exchange for Students and Teachers**, Heiligkreutal, Germany
- 2-6 Mar 2015 **Machine learning course by Prof. Michael Cummings**, Tübingen

Teaching and course development

- 2026 **Introduction to Clinical Studies**, *Master's program in Biomedical Engineering*, Designed and delivered practical sessions, Wrocław
- 2026 **Data science**, *Master's program in Biomedical Engineering*, Co-lecturer, Wrocław
- 2025/2026 **Databases for Medical Informatics**, *Master's program in Biomedical Engineering*, Course coordinator and instructor, Wrocław
- 2025/2026 **Introduction to Programming for Medical Informatics**, *Bachelor's program in Medical Informatics*, Course coordinator and instructor, Wrocław
- 2024 **Translational Medicine in COVID-19, PhD course**, *PhD school*, Guest co-lecturer, Verona
- 2021/2022 **A practical interdisciplinary PhD course on exploratory data analysis**, *PhD school*, Sole instructor, course involved programming and machine learning, Verona
- 2021 **Programming for bioinformatics about Metagenomics**, *Master's program in Biotechnology*, Guest lecturer, Verona
- 2017, 2018 **Informatics Vorkurs**, *Master's program in Bioinformatics*, Sole instructor, Tübingen
- 2017 **Bioinformatics pro-seminar**, *Master's program in Bioinformatics*, Sole instructor, Tübingen
- 2017, 2018 **Vorkurs Informatics für Biologie**, *Master's program in Bioinformatics*, Sole instructor, Tübingen
- 2016, 2017 **Visualization of Biological Data**, *Master's program in Bioinformatics*, Planned and delivered practical classes, Tübingen
- 2016 **Programming Projects in Python and Java**, *Master's program in Bioinformatics*, Sole instructor, Tübingen
- 2014, 2016 **Bioinformatics I**, *Master's program in Bioinformatics*, Planned and delivered practical classes, Tübingen
- 2015 **Advanced Java for Bioinformatics**, *Master's program in Bioinformatics*, Planned and delivered practical classes, Tübingen

Supervision of engineering and master's theses

- 2026 **Master thesis**, *Biomedical engineering*, Jagoda Gotowska
A system supporting continuous benchmarking of large language models for clinical data standardization
- 2026 **Master thesis**, *Biosciences*, Alperen Oktay
Human Gut Resistome Quantification
- 2026 **Engineering thesis**, *Medical informatics*, Weronika Łaszkiwicz
Impact of Secondary, Tertiary, and Quaternary Structures of the SARS-CoV-2 Genome on Its Evolution
- 2025/2026 **Engineering thesis**, *Medical informatics*, Julia Świsterska
Retracted Papers in Meta-Analyses and Systematic Reviews
- 2025/2026 **Engineering thesis**, *Medical informatics*, Nazarii Zavhorodnii
Detection of the pathogenicity in the clinical microbial Nanopore sequencing

- 2026 **Polverino E, De Nardo P, Gentilotti E, Górška A, ..., Goossens H, Tacconelli E, Akova M.** *ERS/ESCMID state-of-the-science statement on the role of rapid diagnostic tests for the diagnosis and management of community-acquired lower respiratory tract infections.*, Eur Respir J, 68(1)
- 2026 **Gusinow R, Górška A, .., Tacconelli E, Hasenauer J.** *Latent transition analysis for longitudinal studies of post-acute infection syndromes*, Nat Commun., 17(1):2557
- 2026 **Gentilotti E., Alvarez Galavito, C., Górška A., Gusinov R., Canziani L.M., De Nardo P., Visentin A., Caponcello M., G., Di Chiara M., .. Tacconelli E.** *Persistent Low-Grade Inflammation and Post-COVID Condition: Evidence from the ORCHESTRA Cohort*, Biomedicine, 14(1), 83
- 2025 **Visentin A., Nazeri A., Peñalvo J.L., Górška A., Davis R. J., Flett R. L. .. Judd A., Tacconelli E.** *Lessons from the European Mpox Outbreak: Strengthening Cohort Research for Future Pandemic Preparedness*, Clinical Microbiology and Infection, S1198-743X(25)00417-3
- 2025 **Smet M., Berkell M., Górška, A., Tacconelli E., Kumar-Singh S., Malhotra-Kumar S.** *Drivers of quasispecies development in SARS-CoV-2 and implications for emergent variants and COVID-19*, Virology, 610:110584
- 2025 **Berkell M., Górška A., Smet M., Bachelet D., Gentilotti E., Guedes M., Franco-Yusti A. M., Mazzaferri F., .. Kumar-Singh S., Laouénan C., Tacconelli E., Malhotra-Kumar S.** *Quasi-species prevalence and clinical impact of evolving SARS-CoV-2 lineages in European COVID-19 cohorts, January 2020—February 2022*, Eurosurveillance, 30(10):2400038
- 2025 **Górška A., Canziani L.M, Rinaldi E., Pana Z.D., Beale S., Bai F.M., .. Judd A., Tacconelli E., Peñalvo J.L.** *Learning from Post COVID-19 condition for epidemic preparedness: a variable catalogue for future Post-Acute Infection Syndromes*, Clinical microbiology and infection, 30(10):2400038
- 2024 **Fabbrini M, D’Amico F, van der Gun BTF, Barone M, Conti G, Roggiani S, Wold KI, Vincenti-Gonzalez MF, de Boer GC, Veloo ACM, van der Meer M, Righi E, Gentilotti E, Górška A, Mazzaferri F, Lambertenghi L, Mirandola M, Mongardi M, Tacconelli E, Turroni S, Brigidi P, Tami A.** *The gut microbiota as an early predictor of COVID-19 severity*, mSphere, 9(10)
- 2024 **Górška A., Tacconelli E.** *Towards Autonomous Living Meta-Analyses: A Framework for Automation of Systematic Review and Meta-Analyses*, Studies in health technology and informatics, 316, 378-382
- 2024 **Puskaric M., Chandramouli B., Osmo T., Gusinow R., Dellacasa C., Rossi E., Cataudella S., Górška A., Rinaldi E.** *Privacy-Preserving Workflow for the Cross-Border Federated Analysis of Clinical Data*, Studies in health technology and informatics, 316, 1637-1641

- 2024 **Gentilotti E., Górska A., Cecchini M. P., Mirandola M., Meroi M., De Nardo P., Sartori A., Konishi De Toffoli C., Kumar-Singh S., Zanusso G., Monaco S., Tacconelli E.,** *Chemosensory assessment and impact on quality of life in neurosensorial cluster of the post COVID 19 syndrome*, Scientific reports, 14
- 2024 **Righi E., Vecchia I. D., Auerbach N., Morra M., Górska A., Sciammarella C.,** *Gut Microbiome Disruption Following SARS-CoV-2: A Review*, Microorganisms, 12(1), 131
- 2023 **Gentilotti E., Górska A., Tami A., Gusinow R., Mirandola M., Rodríguez Baño J., R Palacios Baena Z., .. Tacconelli E.,** *Clinical phenotypes and quality of life to define post-COVID-19 syndrome: a cluster analysis of the multinational, prospective ORCHESTRA cohort.*, eClinical Medicine, 62
- 2023 **Rinaldi E., Dellacasa C., Puskaric M, Osmo T., Górska A., Stellmach C.,** *International clinical research data ecosystem: from data standardization to federated analysis*, Telehealth Ecosystems in Practice, 133-134
- 2022 **Tacconelli E., Górska A., Carrara E., Davis R. J., Bonten M., Friedrich A. W., Glasner C., Goossens H., Hasenauer J., ..., Jaenisch T.,** *Challenges of data sharing in European Covid-19 projects: A learning opportunity for advancing pandemic preparedness and response*, The Lancet Regional Health–Europe, 21
- 2022 **Righi E., Lambertenghi L., Górska A., Sciammarella C., Ivaldi F., Mirandola M., Sartor A., Tacconelli E.,** *Impact of COVID-19 and Antibiotic Treatments on Gut Microbiome: A Role for Enterococcus spp.*, Biomedicines, 10 (11), 2786
- 2022 **Tacconelli E., Göpel S., Gladstone B. P, Eisenbeis S., Hölzl F., Buhl M., Górska A., .. Kern W. V.,** *Development and validation of BLOOMY prediction scores for 14-day and 6-month mortality in hospitalised adults with bloodstream infections: a multicentre, prospective, cohort study.*, Lancet Infectious Diseases, 22 (5), 731-741
- 2022 **Gentilotti E., De Nardo P., Cremonini E., Górska A., Mazzaferri F., Canziani M. L., Hellou M. M., Olchowski Y., Poran I., Leeftang M., Villacian J., Goossens H., Paul M., Tacconelli E.,** *Diagnostic accuracy of point-of-care tests in acute community-acquired lower respiratory tract infections. A systematic review and meta-analysis.*, Clinical Microbiology and Infection, 28 (1), 13-22
- 2021 **Gentilotti E., Savoldi A., Compri M., Górska A., De Nardo P., Visentin A., Be G., Razzaboni E., Soriolo N., Meneghin D., Girelli D., Micheletto C., Mehrabi S., Righi E., Tacconelli E.,** *Assessment of COVID-19 progression on day 5 from symptoms onset*, BMC Infectious Diseases, 21, 1-8
- 2020 **Hellou, M. M., Górska, A. Mazzaferri, F., Cremonini, E., Gentilotti, E., De Nardo, P., ..., Paul, M.,** *Nucleic-acid-amplification tests from respiratory samples for the diagnosis of coronavirus infections: systematic review and meta-analysis.*, Clinical Microbiology and Infection, 27 (3), 341-351

- 2019 **Tacconelli, E., Górská A., Angelis, G., Lammens, C., Restuccia, G., Huson, D. H., ..., Kzma, M.,** *Estimating the Association between Antibiotic Exposure and Colonisation with Antibiotic-resistant Bacteria using Machine-learning Methods*, Journal of Antimicrobial Chemotherapy, 26 (1), 87-94
- 2019 **Arumugam K., Bağcı, C., Bessarab, I., Beier, S., Buchfink, B., Górská, A., Qiu, G., Huson, D. H., Williams R.,** *Annotated bacterial chromosomes from frame-shift-corrected long read metagenomic data*, Microbiome, 7, 1-13
- 2018 **Górská, A., Peter, S., Willmann, M., Autenrieth, I., Schlager, R., Huson, D.H.,** *Dynamics of the human gut phageome during antibiotics treatment.*, Computational Biology and Chemistry, 74, 420-427
- 2016 **Górská A., Markowska-Zgrajek A., Równicki M., Trylska J.,** *Scanning of 16S ribosomal RNA for peptide nucleic acid and targets*, The Journal of Physical Chemistry B, 120 (33), 8369-8378
- 2016 **Huson D., Beier S., Flade I., Górská A., El-Hadidi M., Mitra S., and others,** *MEGAN Community Edition - Interactive Exploration and Analysis of Large-Scale Microbiome Sequencing Data*, PLoS computational biology, 12, 4-12
- 2015 **Górská A., Jasiński M., and Trylska J.,** *MINT: Software to Identify Motifs and Short-Range Interactions in Trajectories of Nucleic Acids*, Nucleic acids research, 43 (17), e114