
Degrees

- Feb 2019 **Ph.D. degree with Summa cum laude in Bioinformatics**, *Center for Bioinformatics, Faculty of Science, University of Tübingen, Germany.*
- Nov 2013 **M.Sc. 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 **B.Sc. degree in Macro-field of Study, Bioinformatics and Systems Biology**, *Faculty of Mathematics, Informatics and Mechanics, University of Warsaw, Poland.*

Work experience

- Apr 2019 **Postdoctoral researcher in Infectious Diseases, ValueDX project in group of Prof. Evelina Tacconelli**, *University of Verona, Italy.*
- Sep 2013 - Mar 2019 **Ph.D. student in Algorithms for Bioinformatics group supervised by Prof. Daniel Huson**, *Center for Bioinformatics Tuebingen.*
- Sep 2013 - Jan 2019 **Ph.D. 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, (mccammon.ucsd.edu).*
- 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, Participated in a project concerning RNA structure modeling.*

Main conferences and workshops

- 15 - 17 Jan 2018 **Asia Pacific Bioinformatics Conference**, *Oral presentation about Phageome project, Yokohama, Japan.*
- 12 - 15 Sep 2016 **German conference in Bioinformatics**, *Oral presentation about Tübiom project, Berlin, Germany.*
- 18 - 20 May 2016 **Congress: Personalised Medicine - Data - Diagnosis - Decisions**, *Best poster award for SATURN machine learning project, Tübingen, Germany.*
- 22 - 27 Nov 2015 **Biological Data Visualization Workshop**, *Leuven, Belgium.*
- 25 - 28 Apr 2015 **European Congress of Clinical Microbiology and Infectious Disease**, *Oral presentation about SATURN machine learning project, Copenhagen, Denmark.*

Main publications

- 2019 Tacconelli, E., Górski A., Angelis, G., Lammens, C., Restuccia, G., Huson, D. H., ... Kozma, M. Estimating the Association between Antibiotic Exposure and Colonisation with Antibiotic-resistant Bacteria using Machine-learning Methods, *Journal of Antimicrobial Chemotherapy*.
- 2019 Arumugam K., Bağcı, C., Bessarab, I., Beier, S., Buchfink, B., Górski, A., Qiu, G., Huson, D. H., Williams R., Annotated bacterial chromosomes from frame-shift-corrected long read metagenomic data, *Microbiome*, 7 (2019).
- 2018 Górski, A., Peter, S., Willmann, M., Autenrieth, I., Schlöter, R., Huson, D.H., 2018. Dynamics of the human gut phageome during antibiotics treatment., *Comput. Biol. Chem.*.
- 2016 Huson D., Beier S., Flade I., Górski A., El-Hadidi M., Mitra S., and others, MEGAN Community Edition - Interactive Exploration and Analysis of Large-Scale Microbiome Sequencing Data, *PLoS Comput Biol*, 12 (2016), 4–12.
- 2016 Górski A., Markowska-Zgrajek A., Równicki M., Trylska J. Scanning of 16S ribosomal RNA for peptide nucleic acid and targets, *J Phys Chem B*. (2016).
- 2015 Górski A., Jasiński M., and Trylska J., MINT: Software to Identify Motifs and Short-Range Interactions in Trajectories of Nucleic Acids, *NAR*, 43 (2015).

Main projects

ValueDX: MI2-funded project whose focus is the value of diagnostics to combat antimicrobial resistance (AMR) by optimising antibiotic use. .

Bloomy: developing ML tools to diagnose sepsis, and reduce antibiotic use..

Phageome and its role in antibiotics resistance, Collaborators: PD. Dr. med. Silke Peter, Prof. Dr. med. Matthias Willmann Universitätsklinikum Tübingen.

Tübiom community gut microbiome project, Presented in GCB 2016.

Long reads and metagenomics assembly analysis in MEGAN..

Impact of antibiotics on a probability of MRSA/ESBL acquisition: Data mining model for SATURN project, Collaborator: Prof. Dr. med. Evelina Tacconelli, Universitätsklinikum Tübingen.

Assembly and comparison of genomes of the hospital-acquired MRSA strains: continuation of the SATURN project, Collaborator: Prof. Dr. med. Surbhi Malhotra-Kumar, University of Antwerp.

Phase the turtle! Haplotype phasing of Diamondback terrapin genome, Collaborators: Professors Mihai Pop, Michael Cummings, Steven Mount, Center for Bioinformatics and Computational Biology, University of Maryland.

Inhibition of bacterial translation by Peptide Nucleic Acid oligomers targeting the ribosomal RNA, *University of Warsaw*.

Webservers

- 2018 **AskSaturn**, *asksaturn.informatik.uni-tuebingen.de*.
- 2016 **RiboScanner**, *riboscanner.cent.uw.edu.pl*.
- 2015 **MINT**, *mint.cent.uw.edu.pl*.

Teaching

- 2017 **Bioinformatics pro-seminar**.
- 2017, 2018 **Vorkurs Informatics für Biologie**.
- 2016, 2017 **Visualization of Biological Data**.
- 2016 **Programming Projects in Python and Java**.
- 2014, 2016 **Bioinformatics I**.
- 2015 **Advanced Java for Bioinformatics**.
- Supervising bachelor students.