

Dr. Michael Thomas Wolfinger

Research Group Bioinformatics and Computational Biology
Faculty of Computer Science
University of Vienna, Austria

Curriculum Vitae 08/2021

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Personal Data

Date of birth: 7 July 1976
Place of birth: Linz, Austria
Nationality: Austrian

Languages

German (mother tongue)
English (business fluent)
French (basic)

Summary

Theoretical biochemist with 20+ years experience in academia, private sector and international organizations. 35+ peer-reviewed publications in international journals and conference proceedings, among them various well-cited first or last author publications. H-index 20 (according to Google Scholar). Developing contributor of the widely-used ViennaRNA Package. Class lecturer at the University of Vienna and the University of Applied Sciences Vienna.

Main Areas of Research

- Virus bioinformatics: Characterization, molecular epidemiology and virus evolution
- Comparative genomics and evolutionary conserved functional (non-coding) RNAs
- Algorithmic bioinformatics: Prediction of RNA structures (2D and 3D)
- RNA regulation in bacteria, archaea, and viruses
- RNA folding dynamics and (re-)folding pathways

Scientific Education and Career History

01/2019-present: University Assistant, Research Group Bioinformatics and Computational Biology, Faculty of Computer Science, University of Vienna
01/2016-12/2018: Postdoctoral Research Associate, Center for Anatomy and Cell Biology, Medical University of Vienna
01/2012-12/2015: Postdoctoral Research Associate, Department of Biochemistry and Cell Biology, University of Vienna
01/2009-12/2011: CEO, incore IT Solutions (IT/Bioinformatics consulting), Vienna
08/2007-01/2010: Consultant, United Nations Industrial Development Organization
08/2005-07/2007: Postdoctoral Research Associate, Department for Theoretical Chemistry, University of Vienna
08/2005-06/2019: Lecturer at the University of Applied Sciences, Vienna
03/2001-10/2004: PhD (Dr. rer. nat.) in Chemistry, University of Vienna

Editorial Activities

Editorial Board Member: Scientific Reports, Frontiers in Virology
Reviewer for Journals: RNA, Bioinformatics, Nucleic Acids Research, RNA Biology, Viruses, Nature Communications, PLOS One, Biophysical Journal, Pathogens, BioEssays, Algorithms in Molecular Biology, Theory in Biosciences, Frontiers in Life Sciences, International Journal of Molecular Sciences, Computational Biology and Chemistry, IEEE Transactions on Computational Biology and Bioinformatics, Computational and Structural Biotechnology Journal, Microorganisms, Mathematics

Supervisor Track

Supervision of 4 Master theses and 2 Bachelor theses (all completed)

IT Skills

Programming languages: C, C++, Python, Perl, R, Shell scripting
Proficiency in Unix/Linux System administration, high-availability computing and virtualization