



Kevin Sidak, BSc

CV

Education

- 2016 to date **Computer Science**, *University of Vienna*, Vienna, *Bachelor/Master*.
<https://www.whatchado.com/de/stories/kevin-sidak>
- 2015 to date **Biology**, *University of Vienna*, Vienna, *Bachelor*.
- 2012 **Computer Science**, *University of Vienna*, Vienna, *Bachelor*.
Accepted during my last two high school years
- 2005 to 2013 **High School Diploma**, *Bernoulligymnasium*, Vienna.
Major: Applied Geometry and Mathematics

Further education

Occupations

- 2020 to date **Fellow**, *Harvard University*, Boston, MA.
- Pfister Lab: An Active Learning Approach for Cell Segmentation and Feature Extraction in Large and Multiplexed Volumetric Imaging Data. Interpreting the latent space of Variational Autoencoders
 - Lichtman Lab: Segmentation and complex Feature extraction via Variational Autoencoders and Pointcloud Networks. Helping Domain experts understand complex features e.g. shape of mitochondria
- 2018 to date **Researcher/IT-Representative/Student Assistant**, *University of Vienna*, Vienna.
- Teaching:
- Introduction to Machine Learning
 - Mathematical Foundations of Computer Science
 - Guest Lecturer in Visualization and Introduction to Machine Learning
 - Computer Graphics
 - Human Computer Interaction
- Research and Projects:
- Member of the Data Science Research Platform @ University of Vienna
 - DNN enhanced SEIR Models for COVID19: Interpretability and Measurements Analysis
 - GNN Quantization and Visual Analysis
 - DNN Quantization Perturbation Analysis and Visualization
 - DNN Information Aware Dynamic Training Phase Quantization
 - Clustering in high noise astronomical data
 - Human brain interfaces
 - Algorithms and mechanisms to design and operate communication networks

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Date of birth: 07.04.1995

- 2018 to 2020 **Computer Scientist**, *Institute for Molecular Biotechnologies*, Vienna.
 Research in data analysis for next generation sequencing as well as microscopy data
 Details:
 - Next Generation Sequencing
 - Image Segmentation
 - Cell Classification
 - Cell Tracking
 - Microscopy Automation
- 2018 to date **Developer, Management, Systemadministrator**, *Marmara IT*, Vienna.
 Development and Management
 Details:
 - Web applications in Laravel
 - Administration of linux and windows servers
 - Data Analysis
- 2013 to 2017 **Systemadministrator and Developer**, *Riskexperts*, Vienna.
 - Development of different analysis Tools for insurance mathematics
 - Administration of linux and windows servers
 - Data Analysis
- 2015 **Microbiologist**, *Baxter*, Ort an der Donau.
 Microbiology analysis in an bio safety level 3 lab
- 2010 to 2015 **Sciencepool**, www.sciencepool-vif.org.
 Association for the promotion of scientific interests for children and teenagers: conception of scientific programs, responsible for booth organization and support at large events with several thousand visitors, technical support and website creation and maintenance
- Miscellaneous**
- 2017 to date **Chairman of the Faculties Students Union**, *Faculty of Computer Science*, Vienna, infstv.univie.ac.at.
 Elected Head and Organizer of the faculty wide students union
 Board member of the following commissions and work groups:
 - Neuroinformatics
 - Machine Learning
 - Computational Medicine
 - Security & Privacy
 - Master Computer Science
 - Master Business Informatics
 - Master Data Science
 - Master Business Analytics
- 2016 to 2018 **CTO**, *Metis-Openlab*, www.metis-openlab.com.
- 2011 to 2012 **Moderator**, *The Radio CC*, theradio.cc.
 Creative Commons Radio
- 2008 **Co-Autor**, *Python-Gamebook*, thepythongamebook.com.

Publications

- 2021 L. Kummer, K. Sidak, T. Reichmann, W. Gansterer. Adaptive Precision Training (AdaPT): A dynamic fixed point quantized training approach for DNNs. [arxiv.org](https://arxiv.org/abs/2010.08111)

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Languages

Deutch **First language**
English **C1**
Spanish **B2**

Computer Skills

Languages Python, Tensorflow, Keras, Pytorch, D3.js, Tableau, matplotlib, PHP(div. Frameworks ua. Laravel), Java, C++, C#, Go, Javascript, Sql, Latex, Rust, Scala(for Apache Spark)
Serversystems Ubuntu, Microsoft Azure, AWS, Docker, Google Cloud, SLURM-Cluster, Sophos, Apache, Nginx, Vmware

Hobbies

RockClimbing Walls around Vienna and in some venues in Vienna
Scuba diving In and out of Austria
Music Guitar, Bongos and Piano
Dancing Latin, Standard and Swing