

Aidin Biibosunov

Curriculum vitae

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Education

- Oct 2019 – Dec 2022** – **M.S. in Mathematics**, *Technical University of Munich*, Munich, Germany
Thesis: Deep Learning Empowered Analysis for High Content Screening (*paper*)
- Sep 2017 – Nov 2018** – **Completed coursework towards M.S.**, *Novosibirsk State University*, Novosibirsk, Russia
In program: Physics of atoms and molecules
- Sep 2013 – Jun 2017** – **B.S. in Physics**, *Novosibirsk State University*, Novosibirsk, Russia
Thesis: High precision quantum chemical calculations of kinetics of primary reactions of thermolysis of nitroalkenes

Experience

- Oct 2022** – **Modeling**, *AliveX*
Computational Modeling
Advisor: Ph.D Atefeh Kazeroonian
- Mar 2022 – Sep 2022** – **Research assistant**, *Institute for Medical Microbiology, Immunology and Hygiene of TUM*
Machine learning (ML) methods in biology
 - worked with high dimensional data
 - associated Bulk RNA-Seq data with various clinical outcomes of experiments with miceAdvisor: Ph.D Atefeh Kazeroonian
- Apr 2021 – Aug 2021** – **Research assistant**, *Helmholtz AI*
Deep learning in High Content Screening (HCS) analysis
 - reproduced *these* results
 - used metric learning to classify microscopy cell imagesAdvisor: Ph.D Tingying Peng
- Jan 2021 – Mar 2021** – **Internship**, *Helmholtz Zentrum München*
Contributed to the implementation of scGen model into *scArches*
Advisor: Mohammad Lotfollahi

Nov 2020 – **Computational Pathology**, *Technical University of Munich*

Seminar at the department of mathematics

○ read and presented the *paper*

○ reproduced the results

Advisor: Sophia Wagner

Oct 2016 – **Lab assistant**, *Voevodsky Institute of Chemical Kinetics and*

Nov 2018 *Combustion*, Laboratory of Mechanisms of Reactions

○ designed and performed experiments (computer simulations)

○ wrote reports

Advisor: Vitaly G. Kiselev

Skills

- Programming Languages: Python (NumPy, Pandas, PyTorch), R, Java, Matlab, SQL
- Tools: Git, Emacs, L^AT_EX

Teaching

Oct 2022 – **Teacher**, *School 84*, Bishkek

Nov 2022 I taught 8th grade physics in the first quarter - Thermodynamics ([link](#))

○ prepared homeworks and tests

○ wrote class notes

Conferences

Apr 2018 – **56th International Scientific Student Conference**

Theoretical study of the new thermal decomposition channels of aliphatic and aromatic nitro compounds

Apr 2017 – **55th International Scientific Student Conference**

Theoretical study of the kinetics and mechanisms of thermolysis of new high-energy compounds

Awards & Scholarships

- Sep 2013: Full-tuition scholarship with stipend for undergraduate studies
- Feb 2013: Russian Board of School Olympiads, Prize Winner in Physics

Languages

- English: Fluent
- German: Beginner
- Russian: Fluent
- Kyrgyz: Native