

Artem Kushner



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EDUCATION

- **University of British Columbia** 2019-2022 | 2023-2024
Computer Science BSc | Mathematics BSc
- **Simon Fraser University** 2018-2019
Biochemistry BSc

TECHNICAL SKILLS

Areas of Expertise: Unix, Databases, ETL Infrastructure, Computational Biology, ML, Systems Design, Mentorship
Languages: Python3, Typescript, Rust (demonstrable experience)
Familiar with C++17, Go, Matlab and Lisp

EXPERIENCE

- **Staking Facilities GmbH** 2021-2022
Backend Developer: Kafka/Redpanda/Rust Ingestion pipeline Munich (Remote)
- **Michael Smith's Genome Sciences Center** 2021
Computational Biologist: Variant Databases/Python/TS Vancouver, BC
- **Khanh Dao Duc Lab, University of British Columbia** 2020-now
Research Technician: Structural Biology, HPC, ML, Full-stack webdev Vancouver, BC
- **Institute Medizintechnik(IMT), Hochschule Luzern** 2019
Intern: Medical Device Classification, Paraplegia Luzern, Switzerland
- **F. Mirza Beg Lab, Simon Fraser University** 2018-2019
Intern: Medical Image Analysis Vancouver, BC
- **Brinkman, BlueCollar, A&G, Nata** 2016-2018
Treeplanter (Forestry) BC, Canada

PUBLICATIONS

- Yu S., Kushner A., Srenik S., Dao Duc K., Detecting prokaryotic-like ribosome exit tunnel geometries within eukaryotic kingdoms, **PLOS Biology**, 2025 (In submission)
- Kushner A., Petrov A., Dao Duc K., RiboXYZ: a comprehensive database for visualizing and analyzing ribosome structures, **Nucleic Acids Research**, 2022
- Ecoffet A, Kushner A, Poitevin F, Dao Duc K. Using A Transport-Based Metric for Continuous Interpolation Between Cryo-Em Density Maps., **AIMS Mathematics**, October 2021
- Poitevin F, Kushner A, Li X, Dao Duc K. Structural Heterogeneities of the Ribosome: New Frontiers and Opportunities for Cryo-EM. **Molecules**. 2020 Jan 25(18):4262
- Abächerli, R., Kästli, M., Aerni, M.; Kushner, A., Boettger, K., Ljutow, A. Reducing Neuropathic, Chronic Pain in Paraplegic Patients Using a Virtual Walking System, **IEEE Abstract**

REFERENCES

Khanh Dao Duc *PhD, Assistant Professor* *University of British Columbia*
Geoffrey Woolard *Structura Biotechnology*
Anton Petrov *PhD, Co-Investigator* *Georgia Institute of Technology*
Abächerli Roger *PhD, Professor, Main Lecturer* *IMT, Hochschule Luzern*

INTERESTS & HOBBIES

Interests (Biology): CryoEM/ET, Conformational Heterogeneity, MD, Digital Twins, Evolution, Cellular Biology, Oncology
Interests (CS): Compilers & Type Systems, TDL/GDL, RISC-V, Database Design, OSS
Interests (Mathematics): Optimal Transport, Bayesian Inference, Differential Geometry, Diffusion Maps
Hobbies: Music, Running, History, Crafts