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, ETL Infrastructure, Computational & Structural Biology

Languages: Python3, Typescript, Rust, C++17, Lisp

Experience

- **Klumpe Lab, IMP/IMBA** *2025-now*
  Research Technician/Data Steward: CryoBoost (CryoET Orchestartion) Vienna Biocenter
- **CryoCloud B.V.** *2024*
  Backend: Atomic Model Visualization & Product Utrecht (Remote)
- **KDD Lab, UBC** *2020-2024*
  Research Technician: Structural Biology, HPC, ML Vancouver, BC
- **Staking Facilities GmbH** *2021-2022*
  Backend Developer: Kafka/Redpanda/Rust Munich (Remote)
- **Michael Smith's Genome Sciences Center** *2021*
  Computational Biologist: Variant Databases/Python/TS 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. , Teasell E., Zhao W., Srenik S., Dao Duc K., Advanced coarse-grained model of the ribosome exit tunnel for fast simulation of nascent polypeptide chain dynamics, **Nucleic Acids Research**, 2025
- Yu S., Kushner A. , Srenik S., Dao Duc K., Detecting prokaryotic-like ribosome exit tunnel geometries within eukaryotic kingdoms, **PLOS Biology**, 2025
- 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

Sven Klumpe *PhD, Principal Investigator* *IMP, IMBA Vienna*
Khanh Dao Duc *PhD, Assistant Professor* *University of British Columbia*
Geoffrey Woolard *Structura Biotechnology*
Abächerli Roger *PhD, Professor, Main Lecturer* *IMT, Hochschule Luzern*