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2021

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, Computational/Structural Biology, ML

Languages: Python3, Typescript, Rust (demonstrable experience)

Familiar with C++17, Go, Matlab and Lisp

EXPERIENCE

CryoCloud B.V. 2024

Utrecht (Remote) Contractor: Atomic models visualization software

 KDD Lab, UBC 2020-now

Research Technician: Structural Biology, HPC, ML Vancouver, BC

 Staking Facilities GmbH 2021-2022

Backend Developer: Kafka/Redpanda/Rust ingestion pipeline Munich (Remote)

 Michael Smith's Genome Sciences Center $Computational\ Biologist:\ Variant\ Databases/Python/TS$ Vancouver, BC

• Institute Medizintechnik(IMT), Hochschule Luzern

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

Geoffrey Woolard

Anton Petrov PhD. Co-Investigator

Abächerli Roger PhD, Professor, Main Lecturer

University of British Columbia Structura Biotechnology Georgia Institute of Technology IMT, Hochschule Luzern

Interests & Hobbies

Biology: CryoEM/ET, Conformational Heterogeneity, MD, Digital Twins, Evolution, Cellular Biology, Oncology

Compilers & Type Systems, TDL/GDL, RISC-V, Database Design, OSS CS: Mathematics): Optimal Transport, Bayesian Inference, Differential Geometry, Diffusion Maps

Hobbies: Music, Running, History, Crafts