Daniel Batrakhanov

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PROFILE

A diligent person with natural curiosity and eagerness not only to learn and explore new technologies but also to develop interpersonal skills in a multicultural environment

TECH SKILLS

Programming:

MATLAB	★★★☆☆
Python (ML&DS)	★★★☆☆
SQL	★★☆☆☆

Tools and Technologies:

Git, Docker, Singularity, Linux and Unix-like OS, Windows

LANGUAGES

French	A2
English	B2
Russian	native

HOBBIES & INTERESTS

Machine learning and programming in general, hackathons, esports events, matchmaking rating, video game industry, stock markets and economics

ACTIVITIES

EEML Summer School • 2022
Napoleon IT MobDev • 2020
Samsung IoT Academy • 2019

EXPERIENCE

Researcher 2021 - 2024
LUT University Lappeenranta, Finland
Conducted scientific research for the FASTVISION-plus project, which combines cutting-edge plankton imaging instrumentation with advanced computer vision and image analysis techniques to create a device-independent recognition model.

- Supervision, teaching and article writing skills
- Researching and implementing Convolutional Neural Networks (various kinds) and Transformers in a domain-adaptation field on a Finnish supercomputers
- Pytorch, MLflow, OpenCV, NumPy, SciPy, Sklearn and etc.

EDUCATION

Master's degree 2019-2021
LUT University Lappeenranta, Finland
School of Engineering Science

- Computational Engineering and Technical Physics GPA: **4.6**

Master's degree 2019-2021
South Ural State University Chelyabinsk, Russia
School of Electronic Engineering and Computer Science

- Fundamental Computer Science and Information Technology GPA: **5**

Bachelor's degree 2015-2019
South Ural State University Chelyabinsk, Russia
School of Electronic Engineering and Computer Science

- Informatics and Computer Engineering GPA: **4.2**

PUBLICATIONS

[1] D. Batrakhanov, T. Eerola, K. Kraft, L. Haraguchi, L. Lensu, S. Suikkanen, and et al.. DAPlankton: Benchmark Dataset for Multi-instrument Plankton Recognition via Fine-grained Domain Adaptation. arXiv preprint arXiv:2402.05615, 2024.

[2] D. Batrakhanov, F. Zolotarev, T. Eerola, L. Lensu, and H. Kälviäinen. Virtual sawing using generative adversarial networks. In 2021 36th International Conference on Image and Vision Computing New Zealand (IVCNZ), pages 1–6, 2021.

[3] S. Bilik, D. Batrakhanov, T. Eerola, L. Haraguchi, K. Kraft, S. Van den Wyngaert, and et al. Toward phytoplankton parasite detection using autoencoders. Machine Vision and Applications, 34(6), Sept. 2023.

[4] T. Eerola, D. Batrakhanov, N. V. Barazandeh, and et al. Survey of automatic plankton image recognition: Challenges, existing solutions and future perspectives. arXiv preprint arXiv:2305.11739, 2023.

16th March 2024