

VADYM IVANCHUK

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Stockholm, Sweden

EDUCATION

TECHNICAL UNIVERSITY OF MADRID MADRID, ES
Master of Science in Biomedical Engineering *Jul/2020*

TECHNICAL UNIVERSITY OF MADRID MADRID, ES
Bachelor of Engineering in Telecommunication Technologies and Services *Jul/2018*
· Minor in Electronics

WORK EXPERIENCE

KAROLINSKA INSTITUTET STOCKHOLM, SE
Bioinformatician in the Department of Microbiology, Tumor and Cell Biology *Jul/2021 – Present*
· Development of bioinformatics solutions for the identification of somatic mutations in cancer and clinical interpretation of genomic data

SPANISH NATIONAL CANCER RESEARCH CENTER MADRID, ES
Research Assistant in the Department of Bioinformatics *Feb/2021 – Jun/2021*
· Collection, analysis and interpretation of biological and clinical single-cell RNA-seq data

PUERTA DE HIERRO MAJADAHONDA UNIVERSITY HOSPITAL MADRID, ES
Intern in the Liquid Biopsy Laboratory of the Oncology Department *Feb/2020 – Jul/2020*
· Molecular profiling of liquid biopsy samples from lung cancer patients
· Development of a somatic variant filtering pipeline for next generation sequencing data

SAN SEBASTIÁN ONCOLOGY HOSPITAL SAN SEBASTIÁN, ES
Researcher *Dec/2018 – Sept/2019*
· Development of interoperable web, mobile, and server platforms to assist health professionals in designing personalized treatment plans and monitor cancer patients
· Coordination of the software development and collaboration with the Medical Oncology Department

TECHNICAL UNIVERSITY OF MADRID MADRID, ES
Research Assistant in the Life Supporting Technologies Research Group *Feb/2018 – Sept/2018*
· Development and integration of services in IoT devices of a Smart House Living Lab
· Design of a facial expression recogniser using machine learning and computer vision techniques

SKILLS

TECHNICAL

- **Computer Science:** Python, R, Snakemake, Docker, Singularity, SQL, HPC
- **Machine learning and computer vision:** Keras/TensorFlow, Google Cloud, OpenCV
- **Electronic systems:** C, MATLAB, embedded systems, FPGAs, Raspberry Pi, Arduino
- **Web and mobile applications:** Java, Angular, JavaScript, HTML, CSS, Android Studio
- **Laboratory:** Nucleic acid isolation from liquid biopsy samples and NGS/dPCR library preparation

LANGUAGES

- **English, Spanish, Ukrainian, and Russian**

RESEARCH

PUBLICATIONS

- Sánchez-Herrero, E., Serna-Blasco, R., **Ivanchuk, V.**, et al. (2021). *NGS-based liquid biopsy profiling identifies mechanisms of resistance to ALK inhibitors: a step toward personalized NSCLC treatment*. Molecular Oncology.
- Fustero-Torre, C., Jiménez-Santos, M. J., García-Martín, S., Carretero-Puche, C., García-Jimeno, L., **Ivanchuk, V.**, et al. (2021). *Beyondcell: targeting cancer therapeutic heterogeneity in single-cell RNA-seq data*. Genome Medicine.

PRESENTATIONS

- Renevey, A., Caceres E., Jemt A., **Ivanchuk, V.**, et al. (2023). **Poster presentation.** *Implementation and validation of RNA-fusion detection in routine cancer diagnostics*. Cancer Research KI Retreat (Stockholm, Sweden)
- Janvid, V., Nyrén K., **Ivanchuk, V.**, et al. (2023). **Poster presentation.** *Enabling large-scale clinical sequencing through the automation of bioinformatic workflows and data management*. European Human Genetics Conference (Glasgow, Scotland).
- Foroughi-Asl, H., Jeggari, A., **Ivanchuk, V.**, et al. (2022). **Poster presentation.** *Balsamic: bioinformatic analysis pipeline for somatic mutations in cancer*. Cutting-Edge Implementation of Precision Medicine in Europe Symposium (Stockholm, Sweden).
- Maqbool, K., Foroughi-Asl, H., Jeggari, A., **Ivanchuk, V.**, et al. (2022). **Abstract presentation.** *Identification and Interpretation of Clinically Relevant Somatic Variants from Whole-Genome Sequencing Data*. 64th Annual Meeting of American Society of Hematology (New Orleans, United States).