# VADYM IVANCHUK

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## 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).
- **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).