

## Marija Pizurica

Postdoctoral Scholar, Biomedical Informatics

### Bio

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#### STANFORD ADVISORS

- Olivier Gevaert, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Evaluating Vision and Pathology Foundation Models for Computational Pathology: A Comprehensive Benchmark Study.** *Research square*  
Gevaert, O., Bareja, R., Carrillo-Perez, F., Zheng, Y., Pizurica, M., Nandi, T., Shen, J., Madduri, R.  
2025
- **Towards a more inductive world for drug repurposing approaches** *NATURE MACHINE INTELLIGENCE*  
de la Fuente, J., Serrano, G., Veleiro, U., Casals, M., Vera, L., Pizurica, M., Gomez-Cebrian, N., Puchades-Carrasco, L., Pineda-Lucena, A., Ochoa, I., Vicent, S., Gevaert, O., Hernaez, et al  
2025
- **Synthetic multimodal data modelling for data imputation.** *Nature biomedical engineering*  
Carrillo-Perez, F., Pizurica, M., Marchal, K., Gevaert, O.  
2024
- **Digital profiling of gene expression from histology images with linearized attention.** *Nature communications*  
Pizurica, M., Zheng, Y., Carrillo-Perez, F., Noor, H., Yao, W., Wohlfart, C., Vladimirova, A., Marchal, K., Gevaert, O.  
2024; 15 (1): 9886
- **Towards Digital Quantification of Ploidy from Pan-Cancer Digital Pathology Slides using Deep Learning.** *bioRxiv : the preprint server for biology*  
Carrillo-Perez, F., Cramer, E. M., Pizurica, M., Andor, N., Gevaert, O.  
2024
- **Generation of synthetic whole-slide image tiles of tumours from RNA-sequencing data via cascaded diffusion models.** *Nature biomedical engineering*  
Carrillo-Perez, F., Pizurica, M., Zheng, Y., Nandi, T. N., Madduri, R., Shen, J., Gevaert, O.  
2024
- **GeNNius: An ultrafast drug-target interaction inference method based on graph neural networks.** *Bioinformatics (Oxford, England)*  
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2023
- **Digital profiling of cancer transcriptomes from histology images with grouped vision attention.** *bioRxiv : the preprint server for biology*  
Zheng, Y., Pizurica, M., Carrillo-Perez, F., Noor, H., Yao, W., Wohlfart, C., Marchal, K., Vladimirova, A., Gevaert, O.  
2023
- **Synthetic whole-slide image tile generation with gene expression profile-infused deep generative models.** *Cell reports methods*  
Carrillo-Perez, F., Pizurica, M., Ozawa, M. G., Vogel, H., West, R. B., Kong, C. S., Herrera, L. J., Shen, J., Gevaert, O.  
2023; 3 (8): 100534
- **Spatial cellular architecture predicts prognosis in glioblastoma.** *Nature communications*

Zheng, Y., Carrillo-Perez, F., Pizurica, M., Heiland, D. H., Gevaert, O.

2023; 14 (1): 4122

- **Whole slide imaging-based prediction of TP53 mutations identifies an aggressive disease phenotype in prostate cancer.** *Cancer research*  
Pizurica, M., Larmuseau, M., Van der Eecken, K., de Schaetzen van Brienen, L., Carrillo-Perez, F., Isphording, S., Lumen, N., Van Dorpe, J., Ost, P., Verbeke, S., Gevaert, O., Marchal, K.  
2023
- **Multimodal data fusion for cancer biomarker discovery with deep learning** *NATURE MACHINE INTELLIGENCE*  
Steyaert, S., Pizurica, M., Nagaraj, D., Khandelwal, P., Hernandez-Boussard, T., Gentles, A. J., Gevaert, O.  
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- **Multimodal data fusion for cancer biomarker discovery with deep learning.** *Nature machine intelligence*  
Steyaert, S., Pizurica, M., Nagaraj, D., Khandelwal, P., Hernandez-Boussard, T., Gentles, A. J., Gevaert, O.  
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