EDUARD CHELEBIAN KOCHARYAN

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EXPERIENCE

PhD in Computerised Image Processing   September 2020 - Present
Quantitative Microscopy Group, Uppsala University   *Uppsala, Sweden*

Supervisor: Carolina Wåhlby

Co-supervisor: Christophe Avenel

· Part of the TissUUmaps team

· Analysis of spatial transcriptomics and integration with microscopy imaging for understanding disease

· State-of-art artificial intelligence for knowledge discovery and prognosis in cancer

Undergraduate researcher   September 2019 - August 2020
Biomedical Data Science Lab, ITACA Institute   *Valencia, Spain*

· Part of the ONCOhabitats team

· Artificial intelligence for brain cancer analysis using magnetic resonance imaging and biomarkers, and combination with genetic mutations

Intern at hospital   January 2019 - June 2019
Department of Information Systems, La Fe Hospital   *Valencia, Spain*

· Study of hospital workflows regarding software, networks and communication

EDUCATION

MSc in Biomedical Engeinnering   September 2019 - July 2020
Medical technology   *Polytechnic University of Valencia, Spain*

Thesis title: *Study of glioblastoma survival prediction based on convolutional neural networks using multimodal magnetic resonance imaging.*

Supervisor: Juan Miguel García Gómez

Co-supervisor: Javier Juan Albarracín

BSc in Biomedical Engeinnering   September 2015 - June 2019
Information and communications technology   *Polytechnic University of Valencia, Spain*

Thesis title: *Design of a glioblastoma radiogenomic classifier based on convolutional networks for identifying molecular subtypes from magnetic resonance images.*

Supervisor: Juan Miguel García Gómez

Co-supervisor: Elies Fuster García

LANGUAGES

Spanish	Native
Armenian	Native
English	Fluent, C1- Cambridge Advanced Exam (CAE)
Catalan/Valencian	Fluent, C1 - Mitjà
French	B1+ - Diplôme d'Etudes en Lange Française (DELF)
Swedish	Currently learning
Japanese	Currently learning

TECHNICAL SKILLS

Programming	Python	Machine and deep learning libraries (TensorFlow, Pytorch)
		Spatial transcriptomics analysis tools
	R	Bioinformatics and spatial transcriptomics packages
	MATLAB	Image and signal processing toolboxes
Other	Linux	Operating system
	LaTeX and MS Office	Offimatic tools
	Ruby	Jekyll for webpage development
	SLURM	Workload manager for high performance computing

SELECTED PUBLICATIONS

See complete list in GoogleScholar

Chelebian, E., Avenel, C., Kartasalo, K., Marklund, M., Tanoglidi, A., Mirtti, T., ... & Wählby, C. (2021). **Morphological Features Extracted by AI Associated with Spatial Transcriptomics in Prostate Cancer**. Cancers, 13(19), 4837.

Chelebian, E., Fuster-Garcia, E., Álvarez-Torres, M. D. M., Juan-Albarracín, J., & García-Gómez, J. M. (2020). **Higher vascularity at infiltrated peripheral edema differentiates proneural glioblastoma subtype**. PloS one, 15(10), e0232500.

Pielawski, N., Andersson, A., Avenel, C., Behanova, A., Chelebian, E., Klemm, A., ... & Wählby, C. (2022). **TissUUmaps 3: Interactive visualization and quality assessment of large-scale spatial omics data**. bioRxiv.

Álvarez-Torres, M., Juan-Albarracín, J., Fuster-Garcia, E., Bellvís-Bataller, F., Lorente, D., Reynés, G., ... & García-Gómez, J. M. (2020). **Robust association between vascular habitats and patient prognosis in glioblastoma: An international multicenter study**. Journal of Magnetic Resonance Imaging, 51(5), 1478-1486.