

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 Wählby](#)

Co-supervisor: [Christophe Avenel](#)

- Part of the [TissUMaps](#) 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

Visiting researcher

July 2022 - September 2022

Computational Pathology Group, Radboudumc

Nijmegen, Netherlands

Supervisor: [Francesco Ciompi](#)

- Study of explainable deep learning for cancer histopathology.

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

EDUCATION

MSc in Biomedical Engineering

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 Engineering

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 (DEL F)
Swedish	Currently learning
Japanese	Currently learning

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). **TissUMaps 3: Interactive visualization and quality assessment of large-scale spatial omics data.** [bioRxiv](#).

Álvarez-Torres, M., Juan-Albarracín, J., Fuster-Garcia, E., Bellví-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.