

Ugur Aygun

Postdoctoral Scholar, Radiology

Bio

BIO

Ugur Aygun is a Marie Skłodowska-Curie Global Fellow working as a postdoctoral researcher at Canary Center for Early Cancer Detection, Stanford University. He received his PhD in electrical engineering, specializing in optical biosensors, optical microscopy, computational imaging, and spectroscopy. His research focusing on the development of novel optical imaging techniques for biomedical applications.

HONORS AND AWARDS

- Marie Skłodowska-Curie Global Fellow, European Commission (2023-2026)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Program Committee Member, SPIE Photonics West 2026, SPIE – The International Society for Optics and Photonics (2025 - present)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Koc University (2020)
- Bachelor of Science, Istanbul Technical University (2013)
- BSc, Istanbul Technical University , Electronics Engineering (2013)
- BSc, Istanbul Technical University , Physics (Double Degree) (2013)
- Visiting PhD Student, University of Cambridge, UK , Physics (2014)
- PhD, Koç University , Electrical Engineering (2020)

STANFORD ADVISORS

- Utkan Demirci, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **EV-Lev: extracellular vesicle isolation from human plasma using microfluidic magnetic levitation device.** *Lab on a chip*
Yaman, S., Devoe, T., Aygun, U., Parlattan, U., Bobbili, M. R., Karim, A. H., Grillari, J., Durmus, N. G.
2025
- **SHINE: SERS-based Hepatotoxicity detection using Inference from Nanoscale Extracellular vesicle content.** *bioRxiv : the preprint server for biology*
Parlattan, U., Boudreau, L., Torun, H., Fan, L., Aygun, U., Gokaltun, A. A., Akin, D., Usta, O. B., Demirci, U.
2025
- **Label-free imaging of exosomes using depth scanning correlation (DSC) interferometric microscopy**
Aygun, U., Ozkumur, A., Durmus, N., Demirci, U., Urey, H.
edited by Shaked, N. T., Hayden, O.
SPIE-INT SOC OPTICAL ENGINEERING.2020