



561.297.3400

An Equal Opportunity/Equal Access Institution



**FLORIDA
ATLANTIC
UNIVERSITY**

College of Engineering and Computer Science

Office of the Dean

777 Glades Road, EE96, Room 308

Boca Raton, FL 33431

561.297.3400

Published Papers:

Esfandi, H., Javidan, M., Anderson, R. M., & Pashaie, R. (2025). Depth-dependent contributions of various vascular zones to cerebral autoregulation and functional hyperemia: An in-silico analysis. *PloS ONE*, 20(5), e0321053.

Esfandi, H., Javidan, M., McGregor, E. R., Anderson, R. M., & Pashaie, R. (2025). Systems biology analysis of vasodynamics in mouse cerebral arterioles during resting state and functional hyperemia. Preprint available on bioRxiv; *Under revision in PLOS Computational Biology*.

Esfandi, H., Javidan, M., & Pashaie, R. "Optimization of data acquisition operation in optical tomography based on estimation theory." *Biomedical Optics Express*, 12(9), 5670–5690 (2021).

Javidan, M., **Esfandi, H.**, Anderson, R., & Pashaie, R. "Optimal data acquisition in tomography." *JOSA A*, 40(12), 2259–2276 (2023).

Javidan, M., **Esfandi, H.**, & Pashaie, R. (2023, March). Optimal tomography of dynamically evolving objects using machine learning algorithms. In *Optical Tomography and Spectroscopy of Tissue XV* (Vol. 12376, pp. 83-87). SPIE.

Javidan, M., **Esfandi, H.**, & Pashaie, R. (2021, November). Optimal Scanning Protocol for Optical Tomography. In *2021 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)* (pp. 3986-3989). IEEE.

In preparation:

Esfandi, H., et al. "Caloric restriction partially restores impaired nitric oxide-mediated neurovascular coupling in PS19 tauopathy mice."