



## Pritam Mukherjee

Postdoctoral Research Fellow, Biomedical Informatics

### Bio

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#### BIO

I received my B. Tech(Hons) with a major in Electronics and Electrical Communication Engineering and a minor in Computer Science and Engineering from Indian Institute of Technology (IIT), Kharagpur in 2010. In 2016, I obtained a Ph.D in Electrical and Computer Engineering at the University of Maryland, College Park under the guidance of Prof. Sennur Ulukus. From January to December 2017, I was a postdoctoral researcher in the Electrical Engineering department at Stanford University with Prof. Tsachy Weissman and Prof. Ayfer Ozgur. From January 2018, I joined the Gevaertlab at BMIR in the Stanford School of Medicine where I am currently pursuing research into the application of machine learning and deep learning to uncover the interplay between biomedical imaging and genomics, as they relate to cancer research.

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Maryland College Park (2016)
- Bachelor of Technology, Indian Institute of Technology, Kharagpur (2010)

### Publications

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#### PUBLICATIONS

- **Machine Learning Radiomics Model for Early Identification of Small-Cell Lung Cancer on Computed Tomography Scans.** *JCO clinical cancer informatics* Shah, R. P., Selby, H. M., Mukherjee, P., Verma, S., Xie, P., Xu, Q., Das, M., Malik, S., Gevaert, O., Napel, S. 2021; 5: 746-757
- **Structuring clinical text with AI: Old versus new natural language processing techniques evaluated on eight common cardiovascular diseases** *Patterns* Zhan, X., Humbert-Droz, M., Mukherjee, P., Gevaert, O. 2021: 100289
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- **Distributed Statistical Estimation of High-Dimensional and Nonparametric Distributions**  
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- **Secrecy in MIMO Networks With No Eavesdropper CSIT**  
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- **Secure Degrees of Freedom Region of the Two-User MISO Broadcast Channel With Alternating CSIT** *IEEE TRANSACTIONS ON INFORMATION THEORY*  
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- **Secure Degrees of Freedom of One-Hop Wireless Networks With No Eavesdropper CSIT**  
Mukherjee, P., Xie, J., Ulukus, S.  
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- **Covert Bits Through Queues**  
Mukherjee, P., Ulukus, S., IEEE  
IEEE.2016: 626–30
- **Real Interference Alignment for the MIMO Multiple Access Wiretap Channel**  
Mukherjee, P., Ulukus, S., IEEE  
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- **Real Interference Alignment for Vector Channels**  
Mukherjee, P., Ulukus, S., IEEE  
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- **MIMO One Hop Networks with No Eve CSIT**  
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- **Secure Degrees of Freedom of MIMO Rayleigh Block Fading Wiretap Channels With No CSI Anywhere** *IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS*  
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- **Secure Degrees of Freedom of the Interference Channel with No Eavesdropper CSI**  
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- **Secrecy for MISO Broadcast Channels via Alternating CSIT**  
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- **Secure Degrees of Freedom of the Multiple Access Wiretap Channel with No Eavesdropper CSI**  
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- **Secure DoF of MIMO Rayleigh Block Fading Wiretap Channels with No CSI Anywhere**  
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- **A SPT treatment to the Bit Serial Realization of the Sign-LMS based Adaptive Filter**  
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