# C:\Users\Muzaffar\Desktop\photo_2020-10-22_10-23-49.jpg**FACULTY OF PHYSICS AND MATHEMATICS**

**UrSU**

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| **EDUCATION:** | * 2008 – 2012 - National University of Uzbekistan (bachelor) * 2016 – 2018 - École normale supérieure (ENS) Paris-Saclay University, Cachan, France (master degree) * 2018 – 2022- Ph.D., Department of Physics, Technical University of Denmark, Denmark | |
| **CAREER / EMPLOYMENT:** | * 2012– 2013 Physics teacher, Academic lyceum of Computer Technologies under the Tashkent State Technical University, Tashkent, Uzbekistan * 2013–2014 Physics teacher, Khazorasp Pedagogy and Service College, Khorezm, Uzbekistan. * 2014–2015 Physics teacher, Khazorasp Agricultural Professional College, Khorezm, Uzbekistan. * 2015–2016 Physics teacher, Academic lyceum of Computer Technologies under the Tashkent State Technical University, Tashkent, Uzbekistan. * 2016–2022 Study for master degree and PhD. * 2022–present, Associate professor at the Department of Physics, Urgench State University, Uzbekistan. | |
| **SPECIALITY** | * Physics of condensed matters, Solid state physics, Material science. | |
| **TEACHING SUBJECTS:** | * General Physics; Termodynimics and statistical physics; Nuclear medicine; Physical basis of medical technique; Application of accelerators in medicine; Physical basis of PET, MRI and CT scans; Nanophysics. | |
| **RESEARCH AREAS OF INTEREST:** | * X-ray Physics; X-ray Computed Tomography (CT); Image reconstruction; Materials Characterization; Data analysis; Photon-counting detectors; Security, medical and industrial applications. | |
| **LIST OF SELECTED PAPERS** | * Sabirov, K., Jumanazarov, D., Yusupov, J., & Matrasulov, D. (2018). Bogoliubov de gennes equation on metric graphs. *Physics Letters A*, 382(39), 2856–2860. doi: <https://doi.org/10.1016/j.physleta.2018.06.016>. * Jumanazarov, D., Koo, J., Busi, M., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2020). System-independent material classification through X-ray attenuation decomposition from spectral X-ray CT. *NDT and E International*, 116(July), 102336. doi: 10.1016/j.ndteint.2020.102336. * Jumanazarov, D., Koo, J.-K., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2021). The significance of the spectral correction of photon counting detector response in material classification from spectral x-ray CT. *Quantum Optics and Photon Counting 2021, SPIE*, 11771(April), 60–76. doi:10.1117/12.2589290. * Jumanazarov, D., Koo, J., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2022). Significance of the spectral correction of photon counting detector response in material classification from spectral x-ray CT. *Journal of Medical Imaging*, 9(3), 1–24. doi: 10.1117/1.JMI.9.3.034504. * Jumanazarov, D., Koo, J., Kehres, J., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2022).Material classification from sparse spectral X-ray CT using vectorial total variation based on L infinity norm. *Materials Characterization*, 187, 111864. doi: 10.1016/j.matchar.2022.111864. * Jumanazarov, D., Alimova, A., Abdikarimov, A., Koo, J., Poulsen, H. F., Olsen, U. L., & Iovea, M. (2023). Material classification using basis material decomposition from spectral x-ray ct. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 1056, 168637. doi:10.1016/j.nima.2023.168637. | |