

# Academic Curriculum Vitae



## Personal Information:

Full Name: Sardar Pirkhider Yaba  
Academic Title: Assistant Professor  
Email: Sardar.Yaba@su.edu.krd  
Mobile: 00964 750 461 7268



## Education:

1. Ph.D. (2009) in Medical Physics - Department of Physics, College of Science /University of Salahaddin /Erbil, Kurdistan Region, Iraq.
2. MSc (1995) in Medical Physics, Department of Physics, College of Education University of Salahaddin /Erbil, Kurdistan Region, Iraq. Thesis Title: (Direct electric current stimulation of bone growth and its effect on blood constitutes).
3. BSc (1988 – 1989) Physics Department of Physics, College of Education University of Salahaddin /Erbil, Kurdistan Region, Iraq.

## Employment:

- Teaching Assistant (2010) - Department of Physics, College of Education, University of Salahaddin Erbil – Iraq.
- Teaching Staff (2014 - 2019) - Department of Physics, College of Education, University of Salahaddin Erbil.

## Qualifications

1. **7-8-1995 -17-3-2001** Assistance lecturer, Department of Physics, College of Education, University of Salahaddin - Erbil, Kurdistan Region, Iraq.
2. **17-3-2001 - 7-4-2006** Lecturer, Department of Physics, College of Education University of Salahaddin - Erbil, Kurdistan Region, Iraq.
3. **7-4-2006 – present** Assistance professor, Department of Physics, College of Education University of Salahaddin - Erbil, Kurdistan Region, Iraq.

**4. 1997-1998** Assistant Head of Physics Department, College of Education University of Salahaddin - Erbil, Kurdistan Region, Iraq.

**5. 1998-2000** Assistant Dean of Pharmacy College, University of Salahaddin - Erbil, Kurdistan Region, Iraq.

**6. 2000-2005** Head Computer Science Dept. College of Education University of Salahaddin - Erbil, Kurdistan Region, Iraq.

**7. 2014-2019** Dean of Education/Shaklawa College. University of Salahaddin - Erbil, Kurdistan Region, Iraq.

**8- 2019-11-2019** General Director of Scientific Research Center Salahaddin University - Erbil, Kurdistan Region, Iraq.

## **Teaching experience:**

1. General Physics.
2. Electricity and Magnetism.
3. Biophysics.
4. Advanced Electricity and Magnetism Lab.
5. Medical Physics.
6. Research Methodology.

## **Research and publications**

1. Mudhaffer M.Ameen ,Edrees M.Tahir., and Sarder P. Yaba , Effect of Temperature and fast neutron on the performance of silicon diodes. Zanco Journal for Pure and Applied Science. 12 No. 2, 2000.
2. Sardar P.Yaba, Radioactive Technician  $^{99m}\text{Tc}$  uptake for thyroid imaging in humans using gamma camera, Zanco Journal for Pure and Applied Science. 13 No. 1, 2001.
3. Edrees M.Tahir\*, Mohammed S. A. Mohammed\* , Sardar p.Yaba, Studying the radioactivity and determining the dose equivalent for  $\text{Rn}^{22}$  in some Kurdistan stone-Quarries, Zanco Journal for Pure and Applied Science. 15 No. 1, 2003.
4. Mohammed Salih A., Edrees M.T., and Sarder Per K. Limitation of time and dose for diagnosis of thyroid Renal bone and liver-spleen by using Technician  $^{99m}\text{Tc}$ , University of Mosul, J. Education and Science ,16, 2004.

5. Sardar P. Yaba, Indwelling Radon measurement in the Shaklawa city and studying lung cancer risks, Zanco Journal for Pure and Applied Science. 17 No. 1, 2005.
6. H.H. Mansour\*, S. P.Yaba, H.Y. Abdulla, N.Q. Muhamad, M.M. Othman, S. Qader. Measurement of indoor radon level in Erbil capital by using solid state nuclear track detector, Radiation measurement.40, 2005.
7. Abdulrahman Ikram Siddiq, Sardar Prikhder Yaba. Three new algorithms for digital image zooming, Third scientific conference of Wassit University ,2009.
8. Mohammed M. Siddeq , Sadar P. Yaba, Using Discrete Wavelet Transform and Wiener filter for Image De-nosing, Science and Medicine in Wassit, 2 No. 2, 2009
9. Sardar P.Yaba, Removing noises from Medical Images by using new Soft-Threshold Wavelet Transform filter. Science and Medicine in Wassit, 5 No. 2, 2012.
10. Sardar P Yaba, Asaad H. Ismail<sup>1</sup>, Ronak H. Shekha, and Hewa H. Aziz. Radiological protection of operators and auditors as a result of CT Scan Radiation Leakage: Iraqi Kurdistan Hospitals. International Journal of Medicine and Medical Science Research Vol. 1(2), pp. 021-026, July 2013.
11. Haidar Jalal Ismail, Dr. Salah Abu baker, Dr. Sardar Pirkhider Yaba. Enhanced Accuracy and Reliability of ER and PR IHC Scoring Using ANN from Digital Microscope Images. Middle East Journal of Internal Medicine, Volume 6, Issue 5, September 2013.
12. Sardar P. Yaba. Breast Cancer detection System based on Comprehensive Wavelet Features of Mammogram Images and Neural Network. International Journal of Scientific & Engineering Research, Volume 4, Issue 12, December 2013.
13. Arin H. Hamad, Hozheen O. Muhamad and Sardar P. Yaba. De-noising of medical images by using some filters. International Journal of Biotechnology Research Vol. 2(2), pp. xxx-xxx, July 2014.
14. Heamn N. Abduljabbara, Haidar J. Ismail<sup>b</sup> and Sardar Y. Perxdra Improve differentiation of Breast mass using fuzzy segmentation method. ZANCO Journal of Pure and Applied Sciences ,ZJPAS (2017), 29 (2); 136-143.
15. Heamn N. Abduljabbara, Sardar Y. Perxdra. Advance methods for detection PUI dilatation by 2D ultrasound. Forth international conference of University Human Development, held on April 8,2017.

16. Bestoon T. Mustafa, Sardar P. Yaba, and Asad H Esmail. A review of the effect of magnetic field on main blood cell: in vivo and in vitro experiments. ZANCO Journal of Pure and Applied Sciences, (2019).
17. Bestoon T. Mustafa, Sardar P. Yaba, and Asad H Esmail. Impacts of materials on the intensity of uniform static magnetic fields using a multi Helmholtz coils design . AIP Conference Proceedings 2213, 020063, (2019).
18. Bestoon T. Mustafa, Sardar P. Yaba, and Asad H Esmail. Impacts of In Vivo Exposure Static Magnetic Field on Blood Viscosity . Materials Science Forum , (2020).
19. Bestoon T. Mustafa, Sardar P. Yaba, and Asad H Esmail. Influence of the static magnetic field on red blood cells parameters and platelets using tests of CBC and microscopy images . Biomedical Physics & Engineering Express , (2020).
20. Bestoon T. Mustafa, Sardar P. Yaba, and Asad H Esmail. Experimental Evaluation of the Static Magnetic Field Effect on White Blood Cells: In Vivo Study . ZANCO Journal of Pure and Applied Sciences, (2020).
21. Bestoon T. Mustafa, Sardar P. Yaba, and Asad H Esmail. Moderate Range Static Magnetic Field Promoted Variation of Blood Parameters: An In vitro Study. ARO-The Scientific Journal of Koya University, (2020).
22. Bestoon T. Mustafa, Sardar P. Yaba, and Asad H Esmail. In-vivo study declares the influence of static magnetic field on blood platelets .8th international conference of applied science and technology, (2020).
23. Asaad H. Ismail, Zakariya A. Hussein, and Sardar P. Yaba,. Investigation a relation between radioactivity concentrations of 40 Potassium (40K) in tooth and the various ethnic groups and its impacts on the rate of tooth damage. Environmental Nanotechnology, Monitoring & Management, (2020).
24. Hersh Muhsin Osman, Sardar Pirkhider Yaba. Automated segmentation of Acute Lymphocytic Leukemia (ALL) subtypes by the combination of color space conversion and K-means cluster. ZJPAS (2022) , 34(3);11-20. ISSN (print ):2218-0230, ISSN (online): 2412-3986, DOI: <http://dx.doi.org/10.21271/zjpas>.
25. Sardar P. Yaba .In-vivo effects of Green laser radiation on hematological parameters of albino rats using direct exposure methods. ZJPAS (2022) , 34(3);11-20. ISSN (print ):2218-0230, ISSN (online): 2412-3986, DOI: <http://dx.doi.org/10.21271/zjpas>.

26. Bestoon Taha Mustafa, Sardar Yaba and Asaad Ismail. Morphological investigation of liver and spleen under the influence of static magnetic field: In vivo. Has been accepted for presentation in the 8 th International Engineering Conference (IEC2022) to be held in Erbil, Kurdistan Region-Iraq on February 23- 24, 2022 organized by Tishk International University and Erbil Polytechnic University and technically sponsored by IEEE and IEEE Iraq Section. <http://www.tiu.edu.iq/conf/iec>.
27. Bestoon Taha Mustafa, Sardar Yaba and Asaad Ismail. Effect of static magnetic field on bone marrow cellular density. ARO p-ISSN: 2410-9355, e-ISSN: 2307-549X. <https://aro.koyauniversity.org/index.php/aro/article/view/946>.
28. Nabeel J.Ali, Sardar Pirkhider Yaba. Automated Thalassemia cell image segmentation using hybrid Fuzzy C-Means and K-means. ZJPAS (2023) , 34(3);11-20. ISSN (print ):2218-0230, ISSN (online): 2412-3986, DOI: <http://dx.doi.org/10.21271/zjpas>.
29. Yusra Mala Yousif Muhammad, Preshan Khder Fatah Sardar Pirkhider Yaba. Measurement of Radon Activity Concentration in Soil Samples of Shaqlawa Region in Erbil City /Iraqi Kurdistan Using RAD7 Detector. ZJPAS (2022) , 34(3);11-20. ISSN (print ):2218-0230, ISSN (online): 2412-3986, DOI: <http://dx.doi.org/10.21271/zjpas>.
30. Sardar Pirkhider Yaba. Impacts of Low Dose Gamma Ray on haematological parameters of albino rats: In vivo. Has been accepted for presentation in the FIRST SCIENTIFIC CONFERENCE ON MEDICAL APPLICATION (FSCMA). On March 14- 15, 2023 organized by Al Hadi University College sponsored by IEEE and IEEE Iraq Section. <http://www.huc.edu.iq/conference>
31. Rasool, D.A., Ismail, H.J. & Yaba, S.P. Fully automatic carotid arterial stiffness assessment from ultrasound videos based on machine learning. Phys Eng Sci Med 46, 151–164 (2023).

## **Conferences and courses attended**

- N/A

## **Funding and academic awards**

- N/A

## **Professional memberships**

- Kurdistan Teacher Syndicate.

- Kurdistan Physicist Syndicate.
- Iraqi Medical Physics Society (IMPS).
- International Organization for Medical Physics (IOMP).

## **Professional Social Network Accounts:**

- <https://www.researchgate.net/profile/Sardar-Yaba>
- <https://scholar.google.com/citations?user=16d1exsAAAAJ&hl=en&oi=sra>
- <https://www.linkedin.com/in/sardar-yaba-667b49125/?originalSubdomain=iq>
- <https://orcid.org/0000-0002-6030-5696>