

Curriculum Vitae

Contact information

Full Name	Fawzeyya Mohamed Gomaa Gharghar
Nationality	Libyan
Date and place of birth	01-09-1977 Libya
Present academic degree and Date	Assistant Professor.01-01-2023
Email	F.Gharghar@uot.edu.ly fawzeyagharghar@gmail.com
Mobile Number	218-917539338

Academic achievements

1995-1999

B. S, Physics, Faculty of Education , Bani Waleid, Libya

2006-2009

MSc Theoretical Nuclear physics, Laurentain University, Sudbury, Canada.

2015-2018

PhD Experimental Solid state physics, Mansoura University, Egypt

Working Experience

2001-2003

High school teacher

Sana Mehedly School, Bani Waleed, Libya

2003-2010

Research scientist, Nuclear Research Center, Tajoura, Libya

2006-2008

Physics lab Assistant teacher, Laurentain University, Sudbury, Canada

2009-2015

Lecturer Assistant, Faculty of Education ,*Tripoli* University, Tripoli, Libya

Head of Physics Department, Faculty of Education Tripoli University, Tripoli, Libya

2015-2018

Post-Doctoral research scientist, Glass research group, Mansoura University, Egypt

2019-2025

- Assistant Professor, Faculty of Education, Tripoli University, Tripoli, Libya
- Membership in the scientific committee ,Physics Department, Faculty of Education, Tripoli University, Tripoli, Libya
- Study and exams coordinator ,Physics Department, Faculty of Education, Tripoli University, Tripoli, Libya
- Membership in the Exams committee ,Faculty of Education, Tripoli University, Tripoli, Libya
- Membership in the Exams Investigation Committee ,Faculty of Education, Tripoli University, Tripoli, Libya
- Membership in the Scientific Research Standard Committee Faculty of Education, Tripoli University, Tripoli, Libya
- Membership in the old graduates committee, Faculty of Education, Tripoli University, Tripoli, Libya
- Membership in Glass research group, Mansoura University, Egypt
- Membership in Glass research group, Benghazi University, Libya

Courses Taught

- Nuclear Physics
- Atomic Physics
- Electronics
- Solid State Physics
- Electromagnetic Theory
- Mathematical Physics
- General Physics
- Medical Physics
- Physics Labs

- Physical chemistry
- Physical Pharmacy
- English Language
- Science teaching methods.
- Materials science,
- Engineering Mechanics
- Electric circuits
- Math
- Mathematical Analysis
- Biostatistics

Professional skills

Language: English, Arabic

Programming language: MS office, MS word, FORTRAN, Peak fit, Origin, Matlab

- **AWARDS and certifications**
- Libyan government scholarship of the top students for Master program studying
- Laurentain University Awarding for top graduated student of the year.
- Libyan government scholarship for PhD program studying
- ESL certificate, ABCE Language School INC, Ottawa Canada
- ESL certificate, Carleton University, Ottawa, Canada
- ICDL certificate, Mansoura university scientific computing center, Egypt.
- TOEFL certificate, English for specific purposes center, Mansoura University, Egypt.
- Matlab certificate, Tripoli University, Tripoli, Libya

- Certification for attending and participating The Scientific forum of Challenge in Physics and Energy, Mansoura University, Egypt.
- Certification for attending and participating the 7th International conference on optical spectroscopy, Laser and their Applications, Cairo University, Egypt.

Publications:

- 1- El-Damrawi G, Gharghar F, Ramadan R, Aboelez M. 11B NMR Spectroscopy of Lead Borate Glasses: Additive Effect of Cerium Oxide. *New Journal of Glass and Ceramics*. 2016 Sep 26; 6(04):57.
- 2- El-Damrawi G, Gharghar F, Ramadan RM. Structural studies on new $x\text{CeO}_2 \cdot (50-x) \text{PbO} \cdot 50\text{B}_2\text{O}_3$ glasses and glass ceramics. *Journal of Non-Crystalline Solids*. 2016 Nov 15; 452: 291-6.
- 3- El Damrawi G, Gharghar F. Magnetic Properties of $x\text{CeO}_2 \cdot (50-x) \text{PbO} \cdot 50\text{B}_2\text{O}_3$ Glasses and Glass Ceramics. *Journal of Advances in Physics*. 2017 Jan: 13(1)
- 4- Gomaa El-Damrawi, Fawzeya Gharghar, Rawya Ramadan. More Insight on Structure of New Binary Cerium Borate Glasses, *New Journal of Glass and Ceramics*, 2018(8): 12-21.
- 5- Fawzeya M. Gharghar. Structural Characterization of Gamma Irradiated $x \text{CeO}_2 \cdot (50-x) \text{PbO} \cdot 50\text{B}_2\text{O}_3$ Glasses, *Al-Ostath*, spring 2021(20).
- 6- Fawzeya Gharghar, Measurement of Level Density Using Spectral distribution Method and Comparison with Bethe Formula, *AL-JAMEAI* , Fall 2021(34).
- 7- Effect of Partial Shading on The Electrical Characteristic of Photovoltaic Panel, *The 1st International Conference on Renewable and Sustainable Energy*, 2022.
- 8- Mostaf, A. M. A., Issa, S. A., Zakaly, H. M., Alotaibi, B. M., Gharghar, F., Al-Zaibani, M., & El Agammy, E. F. (2023). Radiation shielding and optical features for a $\text{PbO}-\text{BaO}-\text{B}_2\text{O}_3$ system. *Radiation Physics and Chemistry*, 202, 110566.

- 9- Gharghar, Fawzeyya, and Sammer El-Jadal. "THE INFLUENCE OF IRON OXIDE ON THE STRUCTURAL AND OPTICAL PROPERTIES OF BOROSILICATE GLASSES." Scientific Journal of Applied Sciences of Sabratha University (2022): 33-46.
- 10-F.Gharghar. Spectral Distribution Method Calculations Of Nuclear Level Densitie. مجلة كلية التربية - جامعة سرت. 2023(2).
- 11-F.Gharghar. Nuclear Level Density. M.Sc Thesis, Laurentian University, Sudbury, Canada,2008.
- 12- F.Gharghar. Structural Features and Magnetic Properties of Some Cerium Borate Glass Ceramics Modified by Lead Oxide. PhD thesis. Mansoura University, Egypt,2018.
- 13- A.M.A. Mostafa , Shams A.M. Issa , E.F. El Agammy , Hesham M.H. .Zakaly , B.M. Alotaibi , F. Gharghar. Effect of BaO addition on gamma radiation shielding performance of sodium barium borate glasses using FLUKA code and PhyX/PSD platform. Radiation Physics and Chemistry 206 (2023) 110766.
- 14- El Damrawi, G., Gharghar, F., Atef, R., & Behairy, A. (2023). Structure role of cesium bromide in calcium silicate glasses and glass ceramics. *Indian Journal of Physics*, 1-7.
- 15- Lead barium borate glasses: optical properties and potential use for radiation shielding" : Emam El Agammy; A.M.A. Mostafaa; Shams eisa; fawzya ghargar; Mohamed Al-Zaibani; Mohamed Misbah; Hesham Zakaly(**Under publication**)
- 16- F. Gharghar,A. Aboukhisheem The Negative Effect of the Calculator Use On level Thinking of Secondary School Students - Scientific Section, The Third

Grade of Secondary School - Teaching Monitoring Of Tripoli Center as a Model(2024).

17- Gharghar, F., Madshal, M. A., Damrawi, G. E., & Abdelghany, M. I. (2025). Structural, physical and shielding attenuation properties of silicate glass ceramics containing copper sulfate. *Applied Physics A*, 131(6), 436.

18- غرغار, فوزية & فتح الله, هدي. واقع تطبيق التعليم الإلكتروني داخل مؤسسات التعليم العالي من وجهة نظر أعضاء هيئة تدريس جامعة طرابلس-ليبيا. المجلة الدولية للعلوم التربوية والأداب (2025).

19- نجم, مروة & غرغار, فوزية. واقع تطبيق كتاب الفيزياء المعملية ومدى توظيف المعامل الافتراضية لرفع مستوى التحصيل العلمي لطلاب المرحلة الثانوية في ليبيا. مؤتمر مصراة الدولي الثاني للعلوم الإنسانية والتطبيقية(2025).

20-F.Gharghar, S.Eljadal. (2025). Temperature Dependence of Dielectric Conductivity of Borosilicate Glasses Modified by Iron Oxide. *International Science and Technology Journal*.