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PERSONAL INFORMATION:

Date of Birth: 24/4/1979

Gender: Male

Marital Status: Married

Nationality: Egyptian

Military Service: Final Exempted

EDUCATION:

Helwan University, Faculty of Science, Ain Helwan, Cairo, Egypt

PH.D in Astrophysics and space physics Physics Department (Space and Astronomy) 2012 - 2015

Cairo University, Faculty of Science, Giza, Egypt

M.Sc. in Astrophysics 2005-2011

Concentration: Geomagnetic Pulsations

Cairo University, Faculty of Science, Giza, Egypt 2002-2003

Pre-master in Astrophysics

Cairo University, Faculty of Science, Giza, Egypt 2002

B.Sc. in Astrophysics (Good)

EXPERIENCE:

- 1- **Lecturer of physics, basic sciences department Egyptian Academy of Engineering and Advanced Technology affiliated to ministry of military production (EAEAT) from 2017 till now.**
- 2- **Delegated Lecturer of physics at Faculty of Science, Helwan University from 2015 till now.**
- 3- **Researcher at Space Weather Monitoring Center at Helwan University in Geomagnetism group**
- 4- **Participated in international workshop and conferences (22) in Egypt, Italy, Germany and France.**
- 5- **Trainer and organizer in space weather center summer school (software program, data analysis and space weather science from 2010, 2011 and 2013) at space weather center at Helwan University**
- 6- **Assistant Lab. in physics Laboratory at Helwan University**

(Electricity, Mechanics and Optics)

7- Assistant Lab. in physics Laboratory three semesters at MIU

(Electricity, Mechanics, Optics and Heat)

PUBLICATIONS:

H Index = 10.54 PhD (https://www.researchgate.net/profile/Ibrahim_Fathy2)

1-A. Shaker, A.Mahrous and **I. Fathy** ' Study of the Low Latitude Plasma Bubbles irregularities and Scintillation Climatology using SWARM Satellite' International Space Weather Initiative Workshop | (smr 3292) Posters 20-24 May 2019, ICTP, Trieste, Italy.

2-A. Shaker, A.Mahrous and **I. Fathy** ' Seasonal Variation of Plasma Bubbles Irregularities using SWARM Satellite over Africa' African Geophysical Society Conference on Space Weather (AGS2019), 25-28 March 2019, Cairo, Egypt.

3-Y.Ahmed, A.Mahrous and **I. Fathy** ' Study of Ionospheric disturbance associated to geomagnetic variation at low latitudes during the storm of December,20.2015.' African Geophysical Society Conference on Space Weather (AGS2019), 25-28 March 2019, Cairo, Egypt.

4- **I. Fathy** "Geomagnetic Pulsations Associated to Ionospheric Dynamo, Case Study" African Geophysical Society Conference on Space Weather (AGS2019), 25-28 March 2019, Cairo, Egypt.

5-Moqbil S. Alenazi¹, Osama M. Shalabiea^{1,4}, **Ibrahim Fathy**³, Ayman M. Mahrous^{2,3} Detection of Large Scale Geomagnetic Pulsations by MAGDAS-Egypt stations during the Solar Minimum of the Solar Cycle 24, The Arab Conference on Astronomy and Geophysics 5th Assembly ACAG-5 Hall-I, 2nd Day, 18.10.2016, Session AST-2, Solar and Space Physics, NRIAG, Helwan.

6-A. Mahrous, E. Ghamry, M. Yusef, A. Abdelnasser and **I. Fathy** "Equatorial Electrodynamics Perturbation during the Geomagnetic Storm of March-08- 2012" International School on Equatorial and low Latitude Ionosphere Bandung INDONSIA, 16-20 March 2015.

7- A. Mahrous, C. Amory-Mazaudier, **I. Fathy** "Ionospheric Disturbance Dynamo Associated to Coronal Hole during Geomagnetic Storm 1-5 August 2002" at New Trends and Applications in Space Weather 16-18 March 2015 Workshop Faculty of Science- Cairo.

8-A.M. Hamada, A. Mahrous, **I.Fathy**, E. Ghamry, K.Groves, K. Yumoto TEC Variations during Geomagnetic Storm/Substorm with PC5/PI2 Pulsation Signature. Advances in Space Research, EM-Earth Magnetosphere/Upper Atmosphere, Volume 55, Issue 11, 1 June 2015, Pages 2534–2542, doi:10.1016/j.asr.2015.02.010.

9-A.shimeis, **I.Fathy**, C.Amory-Mazaudier, R.Fleury, A. Mahrous, K. Yumoto and K.Groves, Signature of a coronal hole on the north crest equatorial anomaly over Egypt during stong geomagnetic storm of 5th April, 2010. Journal of Geophysical Reserch, vol. 117, A07309, doi:10.1029/2012JA017753, 2012.

10- I. Fathy , C. Amory-Mazaudier , A. Fathy, A.M. Mahrous, K. Yumoto , E. Ghamry, Ionospheric disturbance dynamo associated to a coronal hole: case study of 05-10 April 2010 J. Geophys. Res. Space physics, 119, doi:10.1002/2013JA019510.

11- A. Shimeis, I. Fathy, C. Amory-Mazaudier, R. Fleury, A. Mahrous, K. Yumoto and K. Groves, Signature of a coronal hole on the north crest equatorial anomaly over Egypt during strong geomagnetic storm of 5th April, 2010. International Association of Geomagnetism and Aeronomy (IAGI) November 13-17, 2011, Luxor, Egypt .

12- E. Ghamry, A. Mahrous, M. Rassem, I. Fathy and K. Yumoto, Continuous magnetic pulsation activity observed in Egypt. 20th Electromagnetic Induction Workshop, Giza, EGYPT. 18-24 September, 2010.

13- A. Mahrous, E. Ghamry, R. Elhawary , I. Fathy , Y. Yamazaki , S. Abe , T. Uozumi and K. Yumoto, "First MAGDAS Installation at Fayum in Egypt" Advances in Space Research (2010), doi: 10.1016/j.asr.2010.04.022.

QUALITY TRAINING:

- 1-Self-evaluation for Higher education Institution stamped from NAQAA.**
- 2-Program and Course Specifications and Evaluation of ILOs for Higher Education institution stamped from NAQAA.**
- 3-LMS MODEL.**

FIELDS OF INTEREST:

Geomagnetism, Space weather, Ionosphere and Solar physics

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS:

- 1- Member in Egyptian syndicate of scientific professions since 2004 – till now.**
- 2- Member in African Geophysical Society (AGS) since 2014 till – now.**

SKILLS:

<u>Language</u>	Fluent in Arabic and English (TOFEL 500 Cairo University)
<u>Computer knowledge</u>	Windows, MsOffice and ICDL (Helwan University)