<u>Curriculum Vitae</u> Of <u>Susan Wassem Samwel Stefan</u>

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Surname	: Samwel
First name	: Susan, Wassem
Permanent Address	: ٤^ Kablat st., Wadi-Hof-Helwan, Egypt.
Tel.	: (•• ٢)(• ٢) ٢٣٦٩٢٩٣٠
Fax	: (***)(**)*00±1.**
E-mail	: <u>samwelsw@nriag.sci.eg</u>
	<u>s_w_samwel@yahoo.com</u>
	samwelsw@yahoo.com
Mailing Address	: National Research Institute of Astronomy and
	Geophysics, Helwan, Egypt, mailing box:)) f().
Place and Birth Date	: 1Y-197A, Cairo, Egypt
Nationality	: Egyptian
Marital Status	: Single
Employment	:
	- Researcher in Space Research Lab., National
	Research Institute of Astronomy and
	Geophysics (NRIAG), Helwan-Egypt, April, ۲۰۰۹.
	- Assistant Researcher in Space Research Lab.
	National Research Institute of Astronomy and
	Geophysics (NRIAG), Helwan-Egypt, June, Y · · 4.
-	Researcher Assistant in Space Research Lab., National
	Research Institute of Astronomy and Geophysics
	(NRIAG), Helwan- Egypt, October, 1999.

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- 1- Ph.D Cairo University, April, Y · · · ٩
- ۲- M.Sc Cairo University, May, ۲۰۰٤.
- *- B.Sc in (Physics- Astronomy)- Cairo university, May, 1999

Research Fields of Interest:

- Space Physics, Space Weather, Solar physics, Satellite Tracking

Personal Service:

- Membership of an Egyptian-French Project (IMHOTEP project) entitled "Supporting New Ground-based solar observations ", ۲۰۰٦-۲۰۰۸.
- Membership of "Egyptian Society of Astronomy"
- Member of the Local Organizing Committee (LOC), IAU⁽⁽)</sup>, Cairo, Egypt, ⁽...
- Member of the Local Organizing Committee (LOC), MEARIM, Cairo, Egypt Y · · ^
- Member of the Local Organizing Committee (LOC), IAGA, Cairo, Egypt, Y · · ^
- Member of the Local Organizing Committee (LOC), ACAG-1, Helwan, Egypt 7...
- Membership of the Local Organizing Committee (LOC), IAGA^{*}, Solar Wind, Space Weather Interaction'', Cairo, Egypt, ^{*} · · ⁴
- Membership of an Egyptian-French Project (IMHOTEP project) entitled ''High Energy

Particles from the Sun: Study and development of methods for their prediction'', Y.Y.-Y.Y.

Scientific missions

- Paris Observatory, Meudon, France, ۲-۳۰/٦/۲۰۰۹.
- Paris Observatory, Meudon, France, \\"/٩/٢ \ till \\/\•/٢ \•

Conferences and Workshops:

- 1- 1st International conference on Engineering, Mathematics, and physics (EMP), May 14-17, Military Technical College, Cairo-Egypt, 7...7.
- Y- 9th General Scientific Meeting of NRIAG, Dec., Y · · Y
- ۳- ۱^{, th} General Scientific Meeting of NRIAG, Dec., ۲۰۰ ٤
- IAU Symposium "Solar Activity and its magnetic Origin", Cairo, Egypt, March
 April "Solar Activity and its magnetic Origin", Cairo,
- e- 11th General Scientific Meeting of NRIAG, Dec., 7...
- First Middle East-Africa, Regional IAU Meeting, Cairo, Egypt, April
 , Y . . A
- V- International Association of Geomagnetism and Aeronomy, (IAGA)''
 Space weather and its effects on Spacecraft'' Cairo, Egypt, October o 1., Y...
- A- The 1st Arab Conference on Astronomy and Geophysics (ACAG-1)
 Helwan, Cairo, Egypt, October 7...77, 7...
- 4- Workshop on "Future de la radioastronomie solaire en France", Meudon observatoire, Meudon, France, ^{Y4}-^W June, ^Y · · ⁴.
- International Association of Geomagnetism and Aeronomy, IAGA^{*},
 "Solar Wind, Space Weather Interaction", Cairo, Egypt, December, [±] [^], ^{*}.
- 11- The Second IHY International Workshop on Advancing Very Low Frequency (VLF) Science Through the Global AWESOME Network", Sharjah, UAE, February ^{YY-Y £}, ^Y·^Y·

- CESRA summer school on solar radio physics
 V· Nancay Radio
 Observatory (France), on
 ···· September
 ····
- ¹^m- ¹^m- ¹ⁿd Arab Conference on Astronomy and Geophysics ACAG-¹, ¹^o ¹^h October ¹ⁱⁱⁱ</sub>.

Training Courses

- ۱- TOEFL, ۲۰۰٤

M.Sc. Dissertation:

"Comparative studies of some artificial satellites observations and fitting the output data using Spline technique", Cairo University, May Y • • ±.

Ph.D Dissertation

"Space Environment and its effect on Spacecrafts", Cairo University, April, ۲..۹

Publications:

¹- <u>Samwel, S.W.</u>, Hanna, Yousry S., Ibrahim, Makram, and Fahim, G., "An application on Spline technique for fitting Helwan-SLR data", Proceeding of the 1st International conference on Engineering, Mathematics, and physics (EMP), May $1^{\pm}-1^{3}$, Military Technical College, Cairo-Egypt, pp.^A·- ^A⁹, $7 \cdot \cdot 7$.

Y- Hanna, Yousry S., Ibrahim, Makram and <u>Samwel, S.W.</u>, "On Using Chebyshev Polynomials For Fitting SLR Data Of Artificial Satellites", Journal of Applied Mathematics and Computation (AMC), 10% pp. 300-333, 31.14

"- Ibrahim, Makram, Hanna, Yousry S., and <u>Samwel, S.W.</u>, "Statistical and comparative studies for the observations of Helwan-SLR station", Journal of Nonlinear Sciences and Numerical Simulation, $\circ(7)$, $17\circ-157$, $7\cdot\cdot5$.

^ε- <u>Samwel, S.W.</u>, Hanna, Yousry S., and Ibrahim, Makram, "On Applying The Spline Technique For Fitting Different Kinds Of Data", NRIAG Journal of Astronomy and Astrophysics, Special Issue, pp. ^Ψ^φ-^Ψ^ε^ο, ^γ··^ε.

•- <u>Samwel, S.W.</u>, Metwally, Z., Mikhail, J. S., Hanna, Yousry S., and Ibrahim, Makram, "Analyzing The Range Residuals Of The SLR Data Using Two Different Methods", NRIAG journal of Astronomy and Astrophysics, vol. [¢], No. ¹, pp ¹-^{1¢}, [†]···•.

Samwel, S.W., Hady, A.A., Ibrahim, Makram, Hanna, Yousry S.,
 "Studying the great solar proton events during the solar cycle ^Y^T",
 Proceeding of IAU^{Y^T} symposium, "Solar Activity and its Magnetic Origin",
 Cambridge University, pp.^{YAV-Y4·, Y···^Y}.

Y- <u>Samwel, S.W.</u>, Garrett, H.B., Hanna, Y.S., Ibrahim Makram, Mikhail, J.S., and Hady, A.A., "Comparative Study of The Energetic Particle Fluences For Different Orbital Trajectories", NRIAG journal of Astronomy and Astrophysics, No. 11, pp. 189-100, 700-3.

A- <u>Samwel, S.W.</u>, Hady, A.A. ., Mikhail, J.S. , Hanna, Y.S. , and Ibrahim, Makram, "Analysis of the space radiation environment of EGYPTSAT-1 satellite", presented in the IAGA International Symposium "Space weather and its effects on Spacecraft", Cairo, Egypt, Y · · A. ⁴- <u>Samwel, S.W.</u>, Hady, A.A. ., Mikhail, J.S. , Hanna, Y.S. , and Ibrahim, Makram, "Studying the space solar cell power performance for different orbital trajectories", The ^{1st} Arab Conference on Astronomy and Geophysics (ACAG-¹) Helwan, Cairo, Egypt, October ^{*}.-^{*}, ^{*}..^{*}, NRIAG journal of Astronomy and Astrophysics, Special Issue, PP.^{*}.^{*}, ^{*}..^{*}, ^{*}..^{*}

Y.S., "Studying the Total Ionizing Dose and Displacement Damage Dose effects for various orbital trajectories", Proceeding of the First Middle East-Africa, Regional IAU Meeting, pp °°-°^, ^{*} · · ^.

1)- <u>Samwel, S.W.</u>, Hady, A.A, Mikhail, J.S., Ibrahim, Makram, and Hanna, Y.S, "Assessment of GaAs, InP, and GaInP/GaAs/Ge solar cells performance in different radiation environments", Proceeding of the First Middle East-Africa, Regional IAU Meeting, pp $7 \cdot 1 - 7 \cdot 7$, $7 \cdot \cdot \wedge$.

۱۳- K.-L. Klein, <u>S.W.Samwel</u>, G. Trottet: "Strong X-ray bursts and solar energetic particle events", General Assembly of the European Geosciences Union (EGU), Vienna (Austria), May ۲-۷, ۲۰۱۰.

۱٤- <u>S.W. Samwel</u>, K.-L. Klein, G. Trottet, A. Klassen: "Strong solar X-ray bursts without solar energetic particle events", COSPAR General Assembly, Bremen (Germany), July ۱۸-۲۰, ۲۰۱۰. **10-** K.-L. Klein, G. Trottet, <u>S.W.Samwel</u>, O. Malandraki, "Particle Acceleration and Propagation in Strong Flares without Major Solar Energetic Particle Events", submitted to the Solar Physics journal, October **7.1.**

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¹¹- Yousry S.Hanna, Makram Ibrahim, <u>Samwel, S.W.</u> "Comparative Studies of Overlap and Spline Techniques for Fitting SLR Data", presented in $\sqrt[nd]$ Arab Conference on Astronomy and Geophysics (ACAG- $\sqrt[7]$), Cairo, Egypt, October $\sqrt[7]{-1/4}$, $\sqrt[7]{1}$.

¹V- <u>Samwel, S.W.</u>, "Study of LEO atomic oxygen effect on spacecraft materials, Presented in ⁷nd Arab Conference on Astronomy and Geophysics (ACAG-⁷), Cairo, Egypt, October ⁷ \circ -⁷ \wedge , ⁷ \cdot ¹ \cdot .