

C.V.

Soboh W. S. Al QEEQ



PERSONAL BACKGROUND:

• Name	Soboh Wajih Soboh El Qeeq
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• ID Number	801950049
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• Date of birth	06/02/1991
• Address	Collège Néerlandais, 61 Boulevard Jourdan, 75014 Paris
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EDUCATION:

Qualification	Specialization	Enterprise	Period		Score
Degree Ph.D. *1	Space Plasma Physics	Sorbonne Université - LPP	05/11/2019	30/12/2022	-----
Degree M.Sc. *2	Plasma Physics	Islamic University, Palestine.	01/09/2014	22/07/2016	3.8
Degree B.Sc.	Physics Teaching Education	Al Aqsa University-Gaza, Palestine.	01/09/2009	01/01/2013	3.7
High School	Scientific 12 th grade	Beer Sabaa High School, Gaza, Palestine.	01/01/2008	01/01/2009	3.7
Thesis Title *1	Dissipation and acceleration at the vicinity of dipolarization fronts				
Thesis Title *2	Theoretical Treatment of Drift Waves in A Collisionless Plasma Regime within A Magnetically Confined Plasma.				

WORK EXPERIENCE:

05/11/2019 to 30/12/2022	Researcher Sorbonne Université - LPP	<ul style="list-style-type: none">• Study data from Magnetospheric Multiscale (MMS) Mission.• Training on the Model comparison using computer in astronomical research.• Development of my Programming skills with Python• Created Python environment and link it with SPEDAS, AIDapy, Spacepy.• Worked on MMS data with Prof. Dr. Olivier Le Contel and in particular on Generalized Ohm's Law before analyzing the energy conversion processes. Tested ALQEEQ python routines on already published
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		<p>magnetopause crossing events and also compares them with Olivier's results obtained in IDL.</p> <ul style="list-style-type: none"> • Compute timing analysis routine in Python. • Confirm all ALQEEQ Timing analysis results already published. • Computation of the Minimum Variance Analysis (MVA) in Python routine. And confirmed it with results already published. • Building and developing a new plot function to obtain professional figures. • Compute Superposed epoch analysis with a new code for statistical study. • Compute the wave analyses with a new code for LHW study. • Presenting my codes for other Master's and PhD students.
<p>01/01/2018 to 04/09/2019</p>	<p>Researcher Al - Aqsa University, Center of Astronomy and Space Sciences Research</p> <ul style="list-style-type: none"> • Research 	<ul style="list-style-type: none"> • Preparation and follow-up of the five years strategic plan. • Preparation and follow-up of the operating plan. • Preparation and design "Between the Lines," book, a book that covers all aspects of the Astronomy and Space Research Center. • Preparation and coordination "Establishment of an astronomical observatory" project. • Preparation and coordination "Astronomical Study Days" Project. • Preparation and coordination " the establishment of astronomical exhibitions" Project. • Preparation and coordination "Astrological evenings in orphanages and deaf and dumb" Project. • Supervise the work of astronomical groups at the national level • Lecturing and astronomical training for science students. • Search for documents, images, and materials related to predefined research objects to center management. • Conducting public visits to public institutions through the Republican Astronomical Education program. • Prepare a report on astronomical events, and discuss the work report with the direct supervisor. • Work on the participants of astronomical programs as directed by the direct supervisor. • Work on monitoring the researchers and the editor of the subject of the delivery dates according to the direct administrator's request. • There are concerns about research institutions. • Preparation of astronomical scientific bags which includes many astronomical scientific materials

		<p>fully equipped for use by trainers.</p> <ul style="list-style-type: none"> • Design of astronomical templates ready for work from administrative books and educational reviews, and others. • Follow up the websites of the official website of the university and social networking sites in all pages of the Center to publish all the new astronomical news and scientific activities periodically. • Preparation of orders for astronomical equipment, the high quality and accuracy of information. • Preparation of astronomical projects to include the general form of the proposal, the time plan, the financial cost and the practical plan of the project. • Preparation, coordination and design of scientific material on the moon • Collection and design of astronomical cards for publications.
01/09/2016-01/01/2017. 01/09/2017-01/01/2018.	Lecturer 1. Al - Quds Open University - Rafah	<ul style="list-style-type: none"> • Teaching the course of general physics A. • Supervision of scientific research. • Monitoring and evaluation of teaching process. • Develop models of half and final tests.
2016/2018	Research Assistant in Astrophysics Al - Aqsa University, Center of Astronomy and Space Sciences Research	<ul style="list-style-type: none"> • Training on the Model comparison using computer in astronomical research. • Cleaning the data informatics learned from European satellites to measure the extent of land affected by the solar wind and changing the places of solar spots. • Teaching the different astronomical cycles. • Writing various astronomical articles. • Participation in the Maqdesi / 2016-2018, In the French. • Leadership Amateur Astronomy Club.
06/08/2016-01/06/2017.	Teaching Assistant UNRWA, Ibn Khaldun Preparatory School for Boys.	<ul style="list-style-type: none"> • Teaching of IV, V, VII and VIII grades the subject of "General Science". • The preparation of educational methods. • Follow-up and evaluation of the level of the students. • A monthly treatment plans. • Develop models of half and final tests. • Manufacture of various school inventions (Charger magnets device - magnet train - vacuum cleaner - prototype of alternative energy project). • Participation in scientific competitions on the level of the private sector. • Organize Scientific trips.
01/01/2011 01/02/2016	Teacher (by hour) Al Furqan Education Center .	<ul style="list-style-type: none"> • Teaching of III, IV, V VI, VII and VIII grades the subject of "General Science". • Teaching high school level, the subject of physics (2 semesters).

COMMUNICATIONS:

2020

- # 1 **Title\ Analysis of energy conversion processes at kinetic scales associated with a series of dipolarization fronts observed by MMS during a substorm.**
Soboh Alqeeq, Olivier Le Contel, Patrick Canu, Alessandro Retino, Thomas Chust , Laurent Mirioni ,Y. Khotyaintsev, R. Nakamura, F. D. Wilder, N. Ahmadi, H. Y. Wei, M. Argall, D. Fischer, D. J. Gershman, J. L. Burch, R. B. Torbert, B. L. Giles, S. A. Fuselier, R. E. Ergun (4), P.-A. Lindqvist, D. L. Turner (10), I. J. Cohen
(https://www.egu2020.eu/sharing_geoscience_online/).
Date May 4-8, 2020
Type Abstracts, 2020 EGU General Assembly, Sharing Geoscience online
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- # 2 **Title\ MMS/Cluster joint measurements at the vicinity of the plasma sheet boundary layer**
O. Le Contel, A. Retino, A. Alexandrova, T. Chust, K. Steinvall, S. Alqeeq, P. Canu, D. Fontaine, L. Mirioni, I. Dandouras, C. M. Carr, S. Toledo, A. Fazakerley, N. Doss, S. Kiehas , R. Nakamura, Yu. Khotyaintsev, F. D. Wilder, N. Ahmadi, D. J. Gershman , R. J. Strangeway, F. Plaschke, M. R. Argall, D. L. Turner, I. J. Cohen, J. L. Burch, R. B. Torbert , S. A. Fuselier, J. Mukherjee, B. J Giles, R. E. Ergun, P.-A. Lindqvist, P. Escoubet
(https://www.egu2020.eu/sharing_geoscience_online/).
Date May 4-8, 2020
Type Abstracts, 2020 EGU General Assembly, Sharing Geoscience online
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- # 3 Fall MMS SWT organized by GFSC, Online, Oct. 6th, 2020, oral presentation.
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- # 4 PLAS@PAR scientific day, Oct. 5th, 2020, Conference Center at Sorbonne Université, Poster.
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- # 5 **Title\ Energy conversion associated with a series of dipolarization fronts observed by MMS.**
Soboh AlQeeq, Olivier Le Contel, Patrick Canu, Alessandro Retino, Thomas Chust, Alexandra Alexandrova, Laurent Mirioni, Yuri Khotyaintsev, Rumi Nakamura, Frederick D Wilder, Narges Ahmadi, Hanying Wei, Matthew R Argall, David Fischer, Daniel J Gershman, James L Burch, Roy B Torbert, Barbara L Giles, Stephen A Fuselier, Robert Ergun, Per-Arne Lindqvist, Christopher T Russell, Robert J Strangeway, Drew L. Turner, Ian Cohen and MMS
<https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/722593>
Date Dec. 1-17, AGU, 2020.
Type Poster with discussion, 2020 AGU General Assembly, Sharing Geoscience online, Virtual Poster Session SM041
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2021

- # 6 **Title\ Investigation of energy conversion processes and wave activity related to dipolarization fronts observed by MMS.**
Soboh AlQeeq, Olivier Le Contel, Patrick Canu, Alessandro Retino, Thomas Chust, Alexandra Alexandrova, Laurent Mirioni, Yuri Khotyaintsev, Rumi Nakamura, Frederick D Wilder, Narges Ahmadi, Hanying Wei, Matthew R Argall, David Fischer, Daniel J Gershman, James L Burch, Roy B Torbert, Barbara L Giles, Stephen A Fuselier, Robert Ergun, Per-Arne Lindqvist, Christopher T Russell, Robert J Strangeway, Drew L. Turner, Ian Cohen and MMS
Date April, 19-30, EGU, 2021.
Type Poster with discussion, 2021 EGU General Assembly, Sharing Geoscience online
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- # 7 PhD Day, organized by LPP, Feb. 3th, 2021, on line, oral presentation
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- # 8 Elbereth conference, organized by PhD students, Feb. 10th, 2021, on line, oral presentation.
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- # 9 The Solar Orbiter school, organized by IAS, LPC2E, IRAP, April 6-9th, 2021, on line, Poster.
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- # 10 Café Spatial, organized by LPP, May. 28th, 2021, on line, oral presentation. Alqeeq, S., O. Le Contel, P. Canu, et al., title: Homogeneity of energy conversion processes at DF.
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- # 11 AGU, Dec. 13-17 2021 (virtual), Oral presentation
S. Alqeeq et al., Investigation of the homogeneity of the energy conversion processes at dipolarization fronts observed by MMS, Virtual Poster Session SM42C-06, Dec. 16, AGU 2021.
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- # 12 AGU, Dec. 13-17 2021 (virtual), Poster with discussion
O. Le Contel et al., Multiscale analysis of a current sheet crossing associated with a fast earthward flow during a substorm event detected by MMS, Virtual Poster Session SM45E-2318, Dec. 16, AGU 2021.
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- # 13 Fall MMS SWT organized by GFSC, Online, Oct. 19-21, 2021, oral presentation.
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- # 14 PLAS@PAR scientific day, Oct. 8th, 2021, Conference Center at Sorbonne Université, Poster.
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- # 15 JC2, Oct. 06-08 2021 (In person), Oral presentation
S. Alqeeq et al., Dissipation and acceleration at the vicinity of dipolarization fronts, CNES.
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- # 16 SF2A, June 07-11 2021 (virtual), Oral presentation
S. Alqeeq et al., Dissipation and acceleration at the vicinity of dipolarization fronts.
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- # 17 5th Azarquiél School of Astronomy, Nov. 15 2021 (virtual), Oral presentation
S. Alqeeq et al., Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements.
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2022

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- # 18 EGU, May 23–27, 2022 (In person), Oral presentation
S. Alqeeq et al., A statistical study of dipolarization fronts observed by MMS, EGU22-9532, Session ST2.4
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- # 19 EGU, May 23–27, 2022 (In person), Poster with discussion
Mohammed Baraka et al., Study of a dayside magnetopause reconnection event detected by MMS and related to a large-scale solar wind perturbation, EGU22-9556, Session ST2.4
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- # 20 EGU, May 23–27, 2022 (In person), Poster with discussion
O. Le Contel et al., Multiscale analysis of a current sheet crossing associated with a fast earthward flow during a substorm event detected by MMS, EGU22-9481, Session ST2.4
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- # 21 PhD Day, organized by LPP, Mar. 15th, 2022, in person, Oral presentation.
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- # 22 Elbereth conference, organized by PhD students, Mar. 22th, 2022, in person, Oral presentation.
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- # 23 3rd Smilei user & training workshop, Mar 09-11, 2022 (In person), Oral presentation
S. Alqeeq et al., Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements.
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- # 24 Conseil Scientifique du LPP, Mar 11 2022, (In person), Poster with discussion
S. Alqeeq et al., A statistical study of dipolarization fronts observed by MMS
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PUBLICATIONS:

Articles

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- # 1 Alqeeq, S. W., Le Contel, O., Canu, P., Retinò, A., Chust, T., Mirioni, L., ... & Lavraud, B. (2022). Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. *Physics of Plasmas*, 29(1), 012906.
<https://doi.org/10.1063/5.0069432>
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- # 2 Preparing a draft to present a statistical results with 133 events and to be submitted to JGR, 2022.
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- # 3 Preparing a draft to present a wave analysis results with 5 events and to be submitted to JGR, 2023
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4 I try to adapt my results about Poynting's theorem, and I am preparing a draft to present these results with four similar events and to be submitted to JGR.

Books

#	Book name	date	publication
1	Introduction to Astronomy https://www.neelwafurat.com/itempage.aspx?id=lbb263782-247498&search=books	2016	University of United Arab Emirates
2	Learn how to make your own telescope!	2017	University of Algiers
3	Theoretical Treatment of Drift Waves in A Collisionless Plasma Regime within A Magnetically Confined Plasma. https://www.amazon.com/Theoretical-Treatment-Collisionless-Plasma-Regime/dp/3330854324	2017	Noor Publisher
4	The jewels of human interaction	2017	University of Algiers
5	The golden ten in memorizing Quranic verses	2016	University of Algiers
	Introduction to Statistical Physics	2020	With Prof Mohamad Shabat (Not yet)

Collaboration:

1	Cosupervisor for a Master 2 student in Gaza with O. Le Contel, since September 2020.
2	Participate with other PhD students investigations with O. Le Contel 2021,2022.

Meetings:

1	Attendance to on line MMS Science Working Team meeting organized by Goddard Space Flight Center, 2021,2022
2	Attendance to on line MMS Science Working Team meeting organized by NASA April 15-16, 2020
3	Attendance to on line CASSR Science Working Team meeting organized by Al - Aqsa University, Center of Astronomical Research.
4	Attendance to on line GATA Science Working Team meeting organized by International Astronomical Union IAU
5	Attendance to on line Astronomy and Space Science Working Team meeting organized by the Palestine International Astronomical

Courses Taken in Astronomy/Astrophysics:

2012	• Astronomy and astrophysics in Al Aqsa University.
2016	• Plasma Physics in Islamic University.
2017	• Training in data mining, cleaning and IDL and Matlab. I am now independently can access data and plot them in Center for Astronomy and Space Sciences.
2020	Magnétohydrodynamique (MHD) course, by Sebastien Galtier & Catherine krafft, 36 hours, from 21/09/2020 to 26/11/2020

2021	Ethics & STICs: scientific integrity, research ethics & information ethics, 12 hours, from 01/02/2021 to 02/03/2021
2022	PHY569B: Space missions and astrophysical plasmas, by Sahraoui Fouad, 72 hours, from 03/01/2022 to 07/03/2022
2022	Machine learning for heliophysics course online, Jan. 25-28 2022
2022	Description fluide et cinétique des plasmas, by Carter John, 30 hours, from 13/06/2022

Scientific Events Participation:

#	Participation title	Type	Date	Conference Name
1	Analysis of energy conversion processes at kinetic scales associated with a series of dipolarization fronts observed by MMS during a substorm.	group	2020	EGU communications
2	Cluster joint measurements at the vicinity of the plasma sheet boundary layer	group	2020	EGU communications
3	Participation à la journée du réseau PAUSE	group	21/11/2020	Collège de France
4	Theoretical Treatment of Drift Waves in A Collisionless Plasma Regime within A Magnetically Confined Plasma.	group	2016 2017	• Physics and Mathematics Conference. • FPICPUAE • ISTEK • ICMIS • FPCMTMP
5	Plasma physics Scientific poster. A physicist in plasma. Lecturer of plasma physics.	Individual	2016	Scientific Research Week Islamic University - Gaza
6	Astronomy and Space Physics Scientific poster.	Individual	2016	Scientific Research Week Islamic University - Gaza
7	Astronomical flashes Scientific poster. Director of the honoring ceremony of members of the Palestinian Astronomy Fan Club - Gaza.	group	2016	Scientific Research Week Al Aqsa University
8	First Astronomical Exhibition in Palestine • Head of the astronomical corner of the exhibition. • Various astronomical posters. • A public speaker in astrophysics. • Introductory lecture on Astrophysics and its spiritual aspects in Islam.	Individual	2016	Educational Media Exhibition Islamic University
9	The First Palestinian Youth Conference • Participated in a scientific paper entitled: Palestinian educational philosophy is a reality and a hope.	group	2017	Middle East Forum - Ramallah.
10	Conference of academic immunity challenges and reality • A speaker on the issue of academic rights.	Individual	2017	Palestinian Academic Forum - Gaza.
11	Psychological effects of 55-day war on the	Individual	2017	Palestinian Educational

Projects:

Date	Projects title	Status	Place
2015-now	Magazine of "Eyes to The Sky". Organizer and Editor <ul style="list-style-type: none"> • Editor of the magazine. • Writing scientific articles. • Writing astronomical scenarios for making astronomical films soon. • Participation in magazine direction. • Supervising and reviewing scientific articles. 	group	Palestinian Astronomy Fan Club.
2016	Magnet charging device Project. Production and supervision <ul style="list-style-type: none"> • Preparation of the device by the nature of the educational method. • Overseeing the entire machine industry. • The design of the device and the crystallization of its concept of physical electromagnetic. • Follow up and evaluate the production process. • Developing a device guide. • Participate in the scientific competitions for the manufacture of the magnet machine at the level of the sector and win at the level of the entire educational district. • Participation in the first Islamic University of Educational Media Conference. 	individual	Ibn Khaldun School - UNRWA
2017-2018	• Astrological Knights Project Leader <ul style="list-style-type: none"> • Lead the project and distribute tasks to the team. • Prepare the work plan and the project implementation plan. • Overseeing and designing the game industry. • Follow up and evaluate the level of application of project success. • The author of a booklet explaining the game. • Provide economic feasibility for the entire project. • Writing the astronomical script for the game. 	group	GATA

MEMBERSHIPS:

2018	• Member of the Arab International Astronomical	Morocco
2018	• Member of the Palestine International Astronomical	Palestine
2013	• The head of the Palestinian Amateur Astronomy club {Gaza}	Al-Aqsa University. Palestine, Gaza

2015	• Member of Aura Physics Society {Gaza}	Palestine, Gaza
2012	• Member of the Editorial Board of the Modern Journal of Physics.	Palestine, Gaza
2011	• Member of Editorial Board of the Journal of Physics.	Palestine, Gaza

International participation:

2022	PyHC 2022 summer school, at ESAC from 30 May to 03 June.	individual	On-site
2021	Iberian space science summer school, July 26-30 2021	individual	Online
2021	5th Azarquiel School of Astronomy, Nov. 15 2021	individual	Online
2021	The Solar Orbiter school	group	Online
2021	Femto-UP 2020-21: Ultrafast lasers technologies and applications	individual	Online
2021	Planetary Mapping Winter School held online from 01 to 05 Feb.	individual	Online
2020	5 th ArAS School for Astrophysics held online from 17 to 22 October	individual	Online
2018	School of International Nuclear Physics VI	individual	Namibia
2018	School of International Astrophysics Europe	individual	Berlin
2018	International Statistical Physics School	individual	Istanbul
2018	The Third International Arab Astrophysics School	individual	Beirut
2018	Third Winter Particle Physics School - West Bank!	individual	Palestine
2018	A primary candidate for the worship of the award for Scientific Research	individual	USA - Egypt
2017	The Second International Astronomical Winter School	individual	Morocco
2017	The Fourth Azarquiel School of Astronomy	individual	Italia
2016	The First International Astronomical Winter School	individual	Morocco
2016	International Astronomical Summer School	individual	Morocco
2012	The first international Astronomical Summer School	individual	Lebanon

Presentation:

2012	Installation of telescopes	group	Al-Aqsa University.
2012	Launch of UNESCO Chair for Space Science in Palestine	group	Islamic University.
2012	Monitor the phenomenon of coupling Venus and the Sun	group	Al-Aqsa University.
2015	Monitor of the bloody moon	group	Al-Aqsa University.
2016	Monitor solar spots	group	Al-Aqsa University.
2018 / 04 / 11	Where are we from universe?!	individual	Sabra & Shatila High School - Al Zahra City
2018 / 04 / 11	Astronomical day!	group	Jabalia Preparatory Girls School (g)
2018 / 03 / 29	Astronomical day!	group	Al - Salah Charity School

2018 / 03 / 14	Astronomical day!	individual	Beit Lahia Girls School
2018 / 03 / 22	Astronomical day!	group	Ali Secondary Girls School
2018 / 03 / 23	Where are we from universe?!	individual	Dexter Lab
2018 / 06 / 01	Astronomical Night	individual	Directorate of Education in Rafah
2018 / 03 / 06	Astronomical day!	individual	Shifa Amr School
2018 / 07 / 27	Monitor the longest lunar eclipse in this century!	individual	Al-Aqsa University.

Activities:

15/9/2018	Preparation for the Second Astronomical Training Program	Al-Aqsa University.
20/9/2018	Designing a data questionnaire for trainees in the second training program	Islamic University.
10/10/2018	Design, review and audit of the magazine of the eyes to the sky	Al-Aqsa University.
12/10/2018	Launch " Eyes to the sky " magazine	Al-Aqsa University.
29/9/2018	Preparation and establishment of an astronomical observations in Nusseirat	Al-Aqsa University.
2/11/2018	Meeting with astronomical groups throughout the country	Sabra & Shatila High School – Al Zahra City
27/11/2018	Presenting an astronomical lecture to the students of Fahd Basic School during a visit to the Center	Jabalia Preparatory Girls School (g)
4/12/2018	Monitoring and photographing the sun	Al - Salah Charity School
7/12/2018	Preparation of an astronomical lecture entitled Moon Earth Companion	Beit Lahia Girls School
8/12/2018	Design of the moon lecture of the Companion of Heaven to Earth through the PowerPoint program	Al-Aqsa University. Ali Secondary Girls School
9/12/2018	Astronomical lecture at the Islamic University	Dexter Lab
20/11/2018	Preparation of the program of astronomical training program for students of Culture and Free Thought organization	Directorate of Education in Rafah
11/12/2018	Holding the first days of joint training with the Association of Culture and Free Thought	Shifa Amr School
13/12/2018	Signed the Book of light of the Messenger of Heaven to Earth, Presented Dr. Soliman Baraka	Al-Aqsa University.
18/12/2018	Holding the final events of the training program for students of the Association of Culture and Free Thought.	Al-Aqsa University.

Skills:

➤ **High Proficiency in this Computer programs:**

• Python	• PIC (SMILEI) simulation	• GDL/IDL.
• Latex.	• Microsoft Office and google apps	• FORTRAN.
• Maple	• MATLAB	• Adobe Photoshop

➤ **Languages:**

- Arabic, Mother language.
- English, C1.
- Intensive French courses, A1, A2, B1.

➤ **Working under pressure.**

➤ **Strategic Planning, visibility study and report writing.**

➤ **Writing professional scientific articles.**

➤ **High Scientific Research skills.**

➤ **Data mining and cleaning.**

➤ **Presentation Skills.**

REFERENCE:

- Prof. Dr. Patrick Canu, Equipe plasmas spatiaux- Space plasma team Laboratoire de Physique des Plasmas (LPP-UMR7648), CNRS/Ecole, Polytechnique - Sorbonne Université, patrick.canu@lpp.polytechnique.fr
- Dr. Le Contel Olivier, Equipe plasmas spatiaux- Space plasma team Laboratoire de Physique des Plasmas (LPP-UMR7648), CNRS/Ecole, Polytechnique - Sorbonne Université, olivier.lecontel@lpp.polytechnique.fr
- Dr. Suleiman Baraka, Director center of Astronomical Research, Al Aqsa University, suleiman.baraka@gmail.com
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- Prof. Mohamad Shabat, Prof. in the Department of Physics, Islamic University, Gaza, shabatm@gmail.com
- Prof. Sameer Yassin, Prof. in the Department of Physics, Islamic University, Gaza, syassin@iugaza.edu.ps