HESHAM EL-ASKARY, Ph. D.

Professor of Earth System Science and Remote Sensing School of Earth and Environmental Sciences Schmid College of Science and Technology, Chapman University, USA

and

Professor of Environmental Physics, Earth Systems and Geoinformation Sciences (<u>On Leave</u>) Department of Environmental Sciences, Faculty of Science, Alexandria University Moharem Beik, Faculty of Science, Alexandria, Egypt

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OBJECTIVE To extend my educational capabilities and to work on challenging research through a growth oriented position in scientific computing, remote sensing, physics of the atmosphere, meteorology, earth system sciences, land use / land cover, natural Hazards and geographic information system.

EDUCATION

Ph.D. in Computational Science & Informatics	September 2000 – May 2004 George Mason University, VA, USA Major: Environmental Physics/Remote Sensing Dissertation: "Regional Monitoring of Environmental Physics Climate Related Anomalies" Honors: Dissertation passed "with Distinction" GPA: 4.0
M.Sc. in Earth System Science	September 2002 – May 2004 George Mason University, VA, USA Major: Earth Sciences/Remote Sensing/GIS Honors: Dissertation passed "with Distinction" GPA: 4.0
M.Sc. in Computational Science	September 2001 – May 2003 George Mason University, VA, USA Major: Computational Sciences/Remote Sensing Honors: Degree passed "with Distinction" GPA: 4.0
Post Graduate Studies in Geophysics	January 1998 – January 2000 Alexandria University, Egypt Major: Geophysics Honors: Degree passed "with Distinction" GPA: 3.8
B.Sc. of Science	September 1994 – May 1997 Alexandria University, Egypt Major: Geophysics/Physics/Geology Honors: Degree passed "with Distinction" GPA: 3.99

WORK EXPERIENCE

Chapman University,	Professor of Earth System Science and Remote Sensing
USA	March 2016 - Present

 Program Director of the master and PhD. degrees in Computational and Data Sciences (CADS) Member of the curriculum committee of the Environmental Science and Policy Degree. Member of the curriculum committee of Schmid College of Science and Technology. Member of the University Faculty Research Development Council (FRDC) (2015-2017) Member of the university Freshman Foundation Committee (FFC) Member of the Dean's Advisory Committee Teaching introductory and graduate level courses in Hazards, Global Environmental change and Remote Sensing Associate Professor of Earth System Science and Remote Sensing April 2011 - Present Program Director of the master and PhD, degrees in Computational Science (CS) Member of the curriculum committee of the Environmental Science and Policy Degree. Member of the Faculty senate representing Schmid College of Science and Technology. (2010-2012) Member of the Faculty Personnel Committee (FPC) Member of the Eaver y and graduate level courses in Hazards, Global Environmental change and Remote Sensing Chapman University. Member of the Curriculum committee of Schmid College of Science and Technology. (2010-2012) Member of the Faculty Personnel Committee (FPC) Member of the Dean's Advisory Committee Teaching introductory and graduate level courses in Hazards, Global Environmental Change (MGEC) Member of the local organizing committee of the Workshop on "Electromagnetic Signals Associated with Earthquakes and Volcances" (EMSEV) October 3-6, 2010 Chapman University, Orange, CA, USA Member of the curriculum committee of the Environmental Science. Currently developing a Ph.D degree in Computational Science. Currently developing a Ph.D degree in Computational Science. Studying air pollution problem ove		
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 Member of the Dean's Advisory committee Developed two master's degrees in Hazards, Global and environmental Change and Computational Science. Currently developing a Ph.D degree in Computational Science. Studying air pollution problem over Egypt, Middle East and Mediterranean Region and Africa using satellite technology. Analyzing aerosols and meteorology related parameters over 		
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 Science. Studying air pollution problem over Egypt, Middle East and Mediterranean Region and Africa using satellite technology. Analyzing aerosols and meteorology related parameters over 		o i
 Studying air pollution problem over Egypt, Middle East and Mediterranean Region and Africa using satellite technology. Analyzing aerosols and meteorology related parameters over 		
 Mediterranean Region and Africa using satellite technology. Analyzing aerosols and meteorology related parameters over 		
Analyzing aerosols and meteorology related parameters over		
Analyzing Glaciers retreat over the Himalayas.		Analyzing Glaciers retreat over the Himalayas.

	 Member, local organizing committee of the Earthquakes and climate change. Teaching an introductory course in Hazards, Global Environmental shere a end Demote Seminary
National Authority of	Environmental change and Remote Sensing Part time consultant – "Modeling lab using the remote sensing
Remote Sensing and	technology" <u>December 2005 - Present</u>
Space Science (NARSS), Cairo, Egypt	 Succeeded in obtaining a joint research grant between Chapman University and NARSS funded through the NSF for US partner and Science & Technology for Development Fund (STDF) for Egypt partner. Member of the sensors group for research and development for different areas of interest for Egypt development. Participated in developing a dust module to be associated with global weather models for simulating dust events. Lead the efforts for studying air pollution problem over Cairo using satellite technology Contributed in analyzing assimilated temperature data products and observations over location in Egypt in a trial for studying the black cloud phenomenon over Cairo. Participated in the U.SEgypt Workshop on Predictive Methodologies for Global Weather-Related Disasters that is held from March 13 15 2006
	from March 13-15, 2006. a) Associate Professor – "Faculty of Science,
	 Associate Professor – Practity of Science, Environmental Science Department" <u>August 2009 –</u> <u>Present (on leave)</u>
	 Working closely with Graduate students Working closely with the Dean to Establishing the AERONET station in Alexandria
	• Invited to give a series of lectures last was on April 2013
	b) Assistant Professor – "Faculty of Science, Environmental Science Department" <u>July 2005 – July 2009</u> (on leave since 2008)
	• Department representative for developing course description and report as a part of quality assurance process for the whole university
Faculty of Science Alexandria	• Succeeded in leading the research team for current collaboration with the European Union and obtaining a research grant of 57,600 Euros studying the climate change impact of the Mediterranean basin, in particular sea level rise and beach erosion. This project started on April 2007 for four years.
	• Participated as an organizer in the Environmental Day, April 22, 2007.
University, Egypt	• Program coordinator for a workshop on Remote Sensing of the Environment and Earth image processing during the period April 15-17 2007.
	• Participated in the Educational reformation meeting of Alexandria University as a representative of the faculty of Science.

Faculty of Science Alexandria University, Egypt	 Major contributor in credit hour system establishment and curriculum development for bachelor degree in the department of Environmental Science. Currently participating in teaching courses related to Remote Sensing for undergraduate level and a full course for postgraduate in Laser and its applications, Remote Sensing of the Environment, Environmental Pollution, Environmental Geology, Remote Sensing and Applied Geophysics. Supervising students for graduation projects and students in Masters and PhD Degrees. Currently participating in arranging a multidisciplinary colloquium series for the faculty of Science. Succeeded in establishing a memorandum of understanding for collaborating with NASA, USA for the establishment of an Air quality monitoring station provided by NASA for the Faculty of Science. This project is currently under investigation by the Egyptian Government. Developing a remote sensing related workshop and training course held during 15-17 April, 2007 Main initiator and Co-PI of the project Climate Change and Impact Research over Mediterranean Environment funded by the European Union, through CEDARE organization 2007-2011. Main initiator and Co-PI of the project Air Pollution over Greater Delta Region funded by the National Science Foundation, USA through Alexandria University 2007 -2010.
George Mason University, Fairfax, VA, USA	 Geophysics Departments" <u>1997 – 2000</u> Teaching Topics: Properties of Matter, Optics, Thermodynamics, Seismology, Magnetism, Electricity, Geohydrology, Gravity, Heat flow, Paleomagnetism, Geomagnetism, Applied Geophysics Labs and others. Collaborated on curriculum and exam development, met with under graduate and postgraduate students upon request, and graded all written work, including final exam. d) Computer instructor – "Alexandria University" <u>1996 –</u> <u>1997</u> Teaching Topics: Microsoft Office, Operating Systems, Networks and WWW. Worked in computer centers and taught for graduate students in computer centers of Faculties of Science, Commerce, Agriculture, Law and Fine Arts. a) Research Scientist – "Center for Earth Observing and Space Research" <u>May 2004 – May 2008</u> Co-I in NASA funded project dealing with Air pollution over Mega Cities funded through the congress 2006.
	 Teaching a graduate level course summer 2006, titled "Introduction to Natural Hazards and Remote Sensing" Teaching a training course summer 2006, titled "Introduction to Earth Observing, Climate change and Disasters" to the Chinese

	ne Heilongjiang Bureau of Surveying and Mapping
(HLJBSM), Cl	nina
• Succeed	ed in leading the research team to submit a joint
	veen Alexandria University and George Mason
•	the National Science Foundation (NSF) that got
	USD for three years starting 2006.
	y involved in a research grant funded by NASA for
	impact of pollution over megacities and I am
representing C years starting 2	airo case study in this project that got funded for two 2007.
• Currentl	y involved in the committee of a PhD student in the
George Washi	ngton University.
Participa	ated as Co-PI and Co-I in Proposals funded by NASA
and WMO.	
	The Global Climate and Regional Impacts project,
NASA Funded	l.
Develop	bed overall structure for dual degrees programs.
b) Research	Assistant – "Center for Earth Observing and
Space Resear	rch." <u>2001 – April 2004</u>
Participa	ated in many research areas including ENSO
detection, Dus	st Storms monitoring, Flash Floods, Global Climate
Change and ot	hers.
Worked	as Webmaster for the Center for Earth Observing and
Space Researc	h. http://ceosr.gmu.edu
C) Teachin	g Assistant – "School of Computational
Sciences, Phy	vsics Department" 2001
• Teachin	g Topics: Properties of Matter, Physical optics, Heat
and Astronom	y.
Collabor	rated on curriculum and exam development, met with
students upon	request, and graded all written work.
UBLICATIONS (IN CHRONOLOG	SICAL ORDER) (student co-authors are italicized and underlined)
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	1.	<u>Danielle S. Platt</u> , Andrea Molle, Hesham El-Askary , Cyril Rakovski, Peter Simi, "Understanding the Effects of Temperature and Precipitation on the
		Frequency of Terror Attacks by Country", Political Geography (Under
		review, 2020).
	2.	Wenzhao Li, Sachi Perera, Erik Linstead, Rejoice Thomas, Hesham El-Askary
		Thomas Piechota and Daniele Struppa, "Intercomparison among multiple
		hydrological products for the investigation of land cover changes in the
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reviewed	3.	Rommel Maneja; Jeffrey Miller; Wenzhao Li; Rejoice Thomas; Hesham El-
Journals		Askary, Sachi Perera; Ace Flandez; Abdullajid Basali; Joselito Alcaria; Jinoy
		Gopalan; Surya Tiwari; Mubarak Al-Jedani; Perdana Prihartato; Ronald
		Loughland; Ali Qasem; Mohamed Qurban; Wail Faltah; Daniele Struppa,
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		107146, ISSN 1470-160X, https://doi.org/10.1016/j.ecolind.2020.107146.
	4.	Wenzhao Li, Hesham El-Askary, Rejoice Thomas, Surya Prakash Tiwari, K.
		P. Manikandan, Thomas Piechota and Daniele Struppa, "An Assessment of
		the Hydrological Trends using Synergistic Approaches of Remote Sensing and

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- Hesham M. El-Askary, Anup K. Prasad, <u>Heba M. Marey</u>, Mohamed E. El-Raey, Ghassem R. Asrar and Menas Kafatos "Studying and analyzing the formation and dynamics of the black cloud over Cairo, Egypt, using a multi sensor approach", European Geoscience Union, Vienna, Austria, April 22-27, 2012.
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- 90. Hesham Mohamed El-Askary, Walaa Sheta, Anup Krishna Prasad, <u>Hanan Ali</u>, Mohamed Abdel Rahman, Ayman El-Desouki, Menas Kafatos, "Studying Air Quality Dynamics using A Linear Genetic Programming Approach over Remotely Sensed Atmospheric Parameters: case study (Cairo, Egypt)", American Geophysical Union, SanFrancisco, December 05-09, 2011.
- 91. Anup Prasad, **Hesham El-Askary**, Ghassem Asrar, Menas Kafatos, Ashok Jaswal, "Impact of dust storms and anthropogenic aerosols on the snow cover and glaciers of the Indo-Gangetic plains and Himalaya region", American Geophysical Union, SanFrancisco, December 05-09, 2011.
- 92. Menas Kafatos, Ghassem R Asrar, Hesham Mohamed El-Askary, <u>Nikolaos</u> <u>Hatzopoulos</u>, Katharine Hayhoe, Jinwon Kim, Lewis Ziska, David Medvigy, Anup Krishna Prasad, Craig Tremback, Robert L Walko, "Assessing Impacts of Climate Variability and Change on the Agro-ecosystems in California and Southwestern United States", American Geophysical Union, SanFrancisco, December 05-09, 2011.
- 93. <u>H. S. Marey</u>; J. C. Gille; H. M. El-Askary; E. A. Shalaby; M. El-Raey, "Analysis of carbon monoxide levels over Nile Delta, Egypt, using MOPITT satellite data", American Geophysical Union, SanFrancisco, December 05-09, 2011.
- 94. Menas Kafatos, Ghassem R Asrar, **Hesham Mohamed El-Askary**, Anup Prasad, Katharine Hayhoe, Jinwon Kim, and Craig Tremback, "Multi-Model Simulations and satellite observations for Assessing Impacts of Climate

Variability on the Agro-ecosystems" The Third Santa Fe Conference on
Global and Regional Climate Variability, October 31-November 4, 2011.
95. Anup K. Prasad, Hesham M. El-Askary , Ghassem R. Asrar, Menas Kafatos
and Ashok Jaswal, "Wintertime and Pre-monsoon warming over Himalayan-
Tibet Glaciers and Indo-Gangetic plains: Role of desert dust and
e 1
anthropogenic emissions", International Symposium on Remote Sensing
ISRS 2011. The Ocean Resort, YEOSU, Korea, November, 2 – 4 2011.
96. Anup K. Prasad, Hesham M. El-Askary, <i>Sunmin Park</i> , Woo-Kyun Lee and
Menas Kafatos, "Dust Cloud detection over China-Korea-Japan using
CALIPSO, Cloudsat during yellow dust season", International Symposium on
Remote Sensing ISRS 2011. The Ocean Resort, YEOSU, Korea, November 2
-4, 2011.
97. Anup K. Prasad, Hesham M. El-Askary, Ghassem R. Asrar, Menas Kafatos
and Ashok Jaswal, "Wintertime and Pre-monsoon warming over Himalayan-
Tibet Glaciers and Indo-Gangetic plains: Role of desert dust and
anthropogenic emissions", International Symposium on Remote Sensing
ISRS 2011. The Ocean Resort, YEOSU, Korea, November 2 – 4, 2011.
98. C.M. Goodess, M.D. Agnew, D. Hemming, C. Giannakopoulos and the
CIRCE R11 Team, "Integrated assessment in the Mediterranean: The CIRCE
case studies" WCRP Open Science Conference: Climate Research in Service
to Society, 24-28 October Denver, CO, USA, 2011.
99. Anup Prasad, Ghassem Asrar, Hesham El-Askary, Menas Kafatos, "Impact
of dust storms and anthropogenic emissions on the Indo-Gangetic Basin and
melting of Himalayan Glaciers" WCRP Open Science Conference: Climate
Research in Service to Society, 24-28 October Denver, CO, USA, 2011.
100. Menas Kafatos, Hesham Mohamed El-Askary, Anup Krishna Prasad,
"Multi Sensor Observations on the Implications of desert dust transport to the
Nile Delta, the Indo-Gangetic Basin and Himalayan Glaciers", The Sixth
International Workshop on Sandstorms and Environmental Impact
Assessments, Glyfada-Athens, Greece, on 7-9 September 2011.
101. Menas Kafatos, Ghassem Asrar, Hesham El-Askary , Jinwon Kim, Woo-
Kyun Lee, Seon K. Park, Anup Prasad, Craig Tremback, Robert Walko,
"Multi-Model Simulations and Satellite Observations for Agriculture and
Ecosystems Climate Change Impacts", IEEE International Geoscience and
Remote Sensing Symposium IGARSS2011, 24 July ~ 29 July, Vancouver,
Canada, 2011.
102. Ghassem Asrar, Anup Prasad, Hesham El-Askary, Menas Kafatos,
"Multi-Sensor Observations of Climate Change Impacts on the Indo-Gangetic
Basin and Himalayan Glaciers", IEEE International Geoscience and Remote
Sensing Symposium IGARSS2011, 24 July ~ 29 July, Vancouver, Canada,
2011.
103. <u>Sunmin P.</u> , El-Askary H., <u>Kwon T.H.</u> , Woo-Kyun L., and Kafatos M.,
"Spatial and Temporal Characteristics of Air Pollutants over Seoul",
International Symposium of Remote Sensing, 2nd Workshop on
Environmental Geospatial Information, 27 October ~ 29 October, 2010, Jeju,
Korea
104. H. S. Marey; J. C. Gille; H. M. El-Askary; E. A. Shalaby; M. El-Raey,
"Study of the formation of the "Black Cloud" and its dynamics over Cairo,
Egypt using MODIS and MISR sensors", American Geophysical Union,

105. H. M. El-Askary ; A. K. Prasad; M. Kafatos, "Black cloud and transport of anthropogenic pollution across the Mediterranean Sea over Nile Delta
region in Egypt during Fall season", American Geophysical Union, SanFrancisco, December 13-17, 2010.
 106. W. Lee; <u>S. Yoo; S. Choi; H. Kwak; S. Park</u>; M. Kafatos; H. M. El-Askary; A. K. Prasad, "Regional climate change modeling and observations for Korea", American Geophysical Union, SanFrancisco, December 13-17,
 2010. 107. M. Kafatos; H. M. El-Askary; G. Galanis; <u>N. Hatzopoulos</u>; X. Liu; D. P. Ouzounov; A. K. Prasad; C. Tremback, "An Integrated Modeling and Observing System with Near Real-Time Applications", American Geophysical Union, SanFrancisco, December 13-17, 2010. 108. A. K. Prasad; P. Chan; H. M. El-Askary; <u>N. Hatzopoulos</u>; J. Kim; X. Liu; D. P. Ouzounov; S. K. Park; C. Tremback; M. Kafatos, "An Integrated Modeling and Observing System for Hazards and Regional Climate Simulations", American Geophysical Union, SanFrancisco, December 13-17, 2010.
 Prasad A. K., El-Askary H., El-Raey M., and Kafatos M., "Contribution of dust transport to the local pollution during biomass burning season over Nile Delta" 7th Annual Meeting and Geosciences World Community Exhibition, Hyderabad International Convention Centre, India, July 5-9, 2010.
110. El-Askary H., Hattab M., El-Raey M., and Kafatos M., "Impact of Sea Level Rise on the Low Land Area South East of Alexandria, Egypt" American Geophysical Union, SanFrancisco, December 14-19, 2009.
 111. Prasad A.K., El-Askary H., and Kafatos M., "Long term MSU tropospheric and ground temperature trends (1979-2008) over Africa" American Geophysical Union, SanFrancisco, December 14-19, 2009. 112. <u>El-Sayed H.</u>, and El-Askary H., "Environmental Investigation of Lake
Maryut, West of Alexandria, Egypt using Remote Sensing technology", Contemporary Environmental Issues in Arid and Semi-Arid Regions Alexandria, Egypt, November 2008.
113. <u>Aboelfetouh Y.</u> , El-Askary H. , and El-Raey M., "Investigating the vertical profiles distribution of the Tropospheric Emission Spectrometer (TES) parameters over Cairo, Egypt," Contemporary Environmental Issues in Arid and Semi-Arid Regions Alexandria, Egypt, November 2008.
114. <u>Osman M.</u> , El-Askary H., and Ramadan A. M., "Analysis of Climate Change Indicators over the Mediterranean Basin," Contemporary Environmental Issues in Arid and Semi-Arid Regions Alexandria, Egypt, November 2008.
115. <u>Hamdy S.</u> , El-Askary H. , and El-Raey M., "Change Detection Analysis of Coral Reefs over Hurghada using Satellite Images" Contemporary Environmental Issues in Arid and Semi-Arid Regions Alexandria, Egypt, November 2008.
116. El-Askary H., "Atmospheric related applications, High Performance computing perspective" U.S.–Egypt Workshop on High Performance computing and its applications for remote sensing, Cairo, Egypt, May 12–15, 2008.
117. El-Askary H., and Kafatos M., "Investigation of major atmospheric contributors to the Black Cloud episodes over Cairo," First International Conference: From Deserts to Monsoons, Crete, Greece, 1-6 June, 2008.

118. Goddess C.M., Angew M., Giannakopoulos C., Hemming D., Kostopoulou E., Fadel M., El-Askary H., Bindi M., Lionello P., Pino C., Gruenzweig J., Oweis T., Karrou M., Sanchez-Arcilla A., Aranda C. M., Senouci M., Harzallah A., El Raey M., Betts R., and McCarthy M., "Crosssectoral impacts and adaptation assessments," European Geosciences Union, General Assembly 2008, Vienna, Austria, 13-18 April, 2008. El-Askary H., and Kafatos M., "Analyzing the influence of the Nile Delta 119. major pollution episode during autumn time," European Geosciences Union, General Assembly 2008, Vienna, Austria, 13-18 April, 2008. 120. El-Askary H., and Kafatos M., "Remote Sensing of Dust Storms and Air Pollution Episodes over Cairo and Greater Delta Region," 6th AARSE International Conference on Earth Observation & Geoinformation Sciences in Support of Africa's Development, Cairo, Egypt, 30 October - 2 November 2006. 121. El-Askary H., Kader M., Sultan, H., and Sherif A., "Aerosol Variability over Cairo using Remote Sensing Technology," U.S.-Egypt Workshop on Predictive Methodologies for Global Weather-Related Disasters Cairo, Egypt, March 13–15, 2006. 122. Kafatos M., Singh R. P., El-Askary H., and Qu J., "Natural and Anthropogenic Aerosols in the World's Megacities and Climate Impacts" Eos Trans. AGU, 85(17), Joint. Assem. Suppl., San Francisco, USA December 5-9,2005. Kafatos M., El-Askary H., and Kallos G., "Potential of Dust Storms Early 123. Warning Using Multiple Remote Sensing Measurements and Mesoscale Modeling," 35th COSPAR Scien. Assem. Paris, France July 18-25, 2004. El-Askary H., Gautam R., Singh R., and Kafatos M., "Mapping of Dust 124. Storms over the Indo-Gangetic Basin using Multi Sensor Data," Committee On Space Research 35th COSPAR Scientific Assembly, Paris, France July 18-25, 2004. 125. Kafatos M., El-Askary H., and Kallos G., "Potential For Early Warning of Dust Storms," Int. Symp. on Sand and Dust Storm, Beijing, China September 12-14, 2004. 126. El-Askary H., Kafatos M. and Chiu L., "ENSO impact on Precipitation Variability over the Virginia and Mid-Atlantic," Eos Trans. AGU, 85(17), Joint. Assem. Suppl., San Francisco, USA December 13-17, 2004. 127. Menas Kafatos, Chaowei Yang, Ruixin Yang, Jianhe Qu, David Wong, Hesham El-Askary, Sudipta Sarkar, Foudan Salem, Long Chiu, Richard Gomez, Mohamed Hegazy, Jim McManus, George Taylor, and Hank Wolf. "Remote Sensing & GIS Distributed Applications," Proceedings of Geoinformatics', Nanjing, China, June 1-3, 2002. El-Askary H., Sarkar S., Chiu L., Kafatos M., and El-Gahzawi T., "Rain 128. Gauge Derived Precipitation Variability over Virginia and its Relation with the EL NINO Southern Oscillation (ENSO)," Committee On Space Research 34th COSPAR Scientific Assembly, The Second World Space Congress, Houston, TX, USA, 10-19 October 2002. 129. Hesham El-Askary, Mohamed Hegazy, Steven Jackson, Menas Kafatos, David Wong and Long Chiu, "Flash Flood Risk Estimation in GIS using Morphometric Parameters," Conference on Earth-Observing and Atmosphere-Land-Ocean Interaction (COAA) Fairfax, VA. USA, 26 October 2002. 130. Hesham El-Askary, Sudipta Sarkar, Long Chiu, Menas Kafatos and Tarek El-Ghazawi "EL NINO Southern Oscillation impact on Virginia

Precipitation," Conference on Earth-Observing and Atmosphere-Land-Ocean
Interaction (COAA) Fairfax, VA. USA, 26 October 2002.

PRESENTATIONS AND INVITED TALKS IN PROFESSIONAL MEETINGS

- 1. IEEE Talk here
- 2. Center for Environment & Water Research Institute, King Fahd University of Petroleum & Minerals, Dhahran- Kingdom of Saudi ArabiaVistos KFUPM, VIISTAS OF BIIODIIVERSIITY IIN THE ARABIIAN GULF
 - Title: "EOS4SDGs: Filling the biodiversity knowledge gap in the Arabian Gulf" <u>November 2020</u>
- 3. Solar Cities
- 4. Ministry of Water Resources and Irrigation, Cairo, Egypt. Session Moderator: Cairo Water Week 2020, Virtual.
 - Title: "Innovative Solutions for Water Security" October, 2020
- 5. Let Nile Flow
- 6. Candaian Chamber
- 7. Bib Alex COVID
- 8. World Bank
- 9. Ministry of Water Resources and Irrigation, Cairo, Egypt. Invited Keynote Speaker and Moderator: Cairo Water Week 2019.
 - Title: "Research and Innovation in Facing Water Scarcity " October, 2019
- 10. Ministry of Immigration and Expats, Cairo, Egypt. Invited Keynote Speaker : Egypt Can Conference for Education.

Title: "Ask the Experts Session"

- 11. Ministry of Water Resources and Irrigation, Cairo, Egypt. Invited Keynote Speaker: Cairo Water Week
 - Title: "Global Climate Change and Pression Agriculture" October, 2018
- 12. Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt. Invited Keynote Speaker : 12th International Conference of African Association of Remote Sensing of the Environment
 - Title: "Earth Observations Solution Addressing SDGs in support of Key environmental Challanges" October, 2018
- 13. Beirut Arab University, Lebanon. Invited Speaker: Urban Health & Wellbeing Building Collaborative Intelligence for Better Lives in Cities
 - Title: "Collaborative actions to achieve the 3rd UN Sustainable Development Goal" <u>October, 2018</u>
- 14. TU Berlin Campus El Gouna, Hurghada, Egypt. Invited Keynote Speaker: Commencement Ceremony and 15th Community Forum El Gouna.

	0	Title:	"Earth	Observations and Environmental Issues"	1	October , 2018
15.	Cost Ir	nDust n	neeting,	, Larnaca, Cyprus.		
	0	Title:	"Earth	Observations, Dust and Solar Energy"		October, 2018
16	D 1	1		the other of the second s		

- 16. Panel discussion in the 6th China-Africa Water Forum
 - Title: "Science view in Water management contribution to more enhanced economic growth" July 2018
- 17. Orange County Business Council, CA, USA o Title: "Game Changer Award"

March 2018

December, 2018

- 18. Planet Earth Institute, London UK.
 - o Title: "Spotlight Seminar: The Future of Renewable Energy in Africa"

November 2017

19. World Youth Forum (WYF)	
 Title: "Future of Global Climate Change" 	November 2017
20. German Arab Chamber of Industry and Commerce	
 Title: "9th Egyptian-German Renewables Day" 	October 2017
21. Bibliotheca Alexandrina Library, Egypt	
• Title: "what you don't know about Hurricanes and Climate Cha	inge"
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22 Escent Con 2016 Conference Hunsheds Escent	<u>October 2017</u>
22. Egypt Can 2016 Conference, Hurghada Egypt	D 1 001(
• Title: "Dynamical Solar Atlas of Egypt"	December 2016
23. Faculty of Science, Alexandria University	
 Title: "Sign of Climate Change on Egypt and the World" 	December 2015
24. Bibliotheca Alexandrina Library	
• Title: "Earth's Spheres and Climate Change, Are we in denial ?	" <u>December 2015</u>
25. Department of Geosciences and Environment, California State Universit	ity, Los Angeles.
• Title: "Remote Sensing of dust and atmospheric pollutants"	June 2015
26. California State University Fullerton - Osher Lifelong Learning Institut	e (OLLI).
• Title: "Earth's Spheres and the Changing Climate"	June 2015
27. University of California Irvine, the 2015 Children's Water Education Fe	
• Title: "Are we hurting our Earth's Spheres?"	March 2015
28. National Observatory of Athens, 2 nd South Eastern Europe GEO Works	
Earth Observation Data and Services for Monitoring the Environment	
	and protecting the
Citizens.	4
• Title: "Different Earth observation possibilities in Egypt: case s	
	October 2014
29. Zewail City, Egypt	
• Title: "On the Extreme events associated with Earth's Dynami	-
Changing Climate"	<u>October 2014</u>
30. Chapman University, Office of Undergraduate Research, CA	
• Title: "Earth's Changing Climate and extreme events"	<u>June 2014</u>
31. Environnemental Technology & Management Association, Dhahran, Sa	audi Arabia
• Title: "Remote Sensing of Dust Storms and Atmospheric Pollut	tion : An
Integrated Multisensor Approach and Case Studies"	<u>March 2014</u>
32. King Fahd University of Petroleum & Minerals Dhahran, Saudi Arabia	
 Title: "5-Days workshop in Remote Sensing and Image Process 	
	March 2014
33. Newport Beach City Hall,	
• Title: "Invited to give public comments on Climate Change In	mnact on Newnort
coastal areas"	January 2014
34. American University, Cairo	<u>Janual y 2014</u>
• Title: "Climate Change and its Impact on Extreme Local Weath	ier January 2014
35. Chapman University, Civic Engagement Initiative's Damage Control:	D 1 0010
• The Casualties of Climate Change (Invited panelist)	December 2013
36. Chapman University, Town and Gown	
o Title: "Earth's Spheres and the Changing Climate: Are	
	November 2013
37. Orange County Public Library, STEAM for Teens	
• Title: "Changing Climate and Hazards, Are we in Denial? "	September 2013
38. Chapman University, Office of Undergraduate Research, CA	
• Title: "Synergistic use of remote sensing and modeling for traci	ng dust storms and
	une 2013
39. Dean's Office, Faculty of Science, Alexandria University, Alexandria, I	
	07 F -

 Title: "New Findings on the black cloud episode over Cairo" 	<u>April 2013</u>
40. Chapman University, Office of Undergraduate Research, CA	
• Panel: "Incorporating Undergraduate Research in Classroom"	<u>October 2012</u>
41. Chapman University, Homecoming Master Classes	
• Title: "Global Environmental Change"	<u>October 2011</u>
42. Istituto Nazionale di Geofisica e Vulcanologia Sede di Bologna, Italy	
• Title: "Climate Change Impact on Sea Level Rise on Northern E	gypt" <u>May 2011</u>
43. The Nicholas Academic Centers, CA "2010 Visiting Scholar Series"	0 1 0010
• Title: "Hazards, Global Change and Satellite Technology"	<u>October 2010</u>
44. National Authority of Remote Sensing and Space Siences, Cairo, Egypt	T 2010
• Title: "Decision Support System for Managing Natural Hazards"	
45. Center for Climate/Environment Change Prediction Research (SSRC), El	HWA University,
Seoul, Korea.	at of Alexandria
• Title: "Impact of Sea Level Rise on the Low Land Area South Ea	
Egypt" 46 Department of Environmental Science and Ecological Environmental Science	January 2010
46. Department of Environmental Science and Ecological Engineering, K Seoul, Korea.	colea Oliversity,
	asta Changa and
 Title: "Remote Sensing Techniques and Applications in Clin Global Environmental Change workshop" 	June 2009
47. Schmid College of Science, Chapman University, Science Forum Series	<u>Juii 2009</u>
• Title: "Remote Sensing of atmospheric pollution"	February 2009
48. Istituto Nazionale di Geofisica e Vulcanologia, Bologne, Italy held in At	
• Title: "Climate change and Impact Research"	May 2008
49. Arab Academy School (IGCSE section) Alexandria, Egypt	<u>1014 / 2000</u>
• Title: "Global Warming Night, Egypt where we stand?"	December 2007
50. Habbi Center For Environmental Rights, Al Ain Al Sokhna, Egypt	
• Title: "Climate Change and its impact on Egypt"	December 2007
	December 2007
51. Environment (Bea3ty) Channel, Nile Sat, Cairo, Egypt	
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 51. Environment (Bea3ty) Channel, Nile Sat, Cairo, Egypt Title: "Using the satellite technology for studying the black cloud the Delta, Egypt" 52. Channel 5, Direct broadcasting Alexandria, Egypt Title: "Using the satellite technology for studying the black cloud the Delta, Egypt" 53. Stockholm Environment Institute (SEI), Oxford, UK Title: "Adaptation and stake holders to Climate change and Se Alexandria, Egypt" 54. Istituto Nazionale di Geofisica e Vulcanologia, Bologne, Italy Title: "Urban and Costal case studies for Climate change and Se Alexandria, Egypt" 55. Department of Chemistry, Faculty of Science, Alexandria University, Al Title: "Remote Sensing of Fires" 56. Department of Environmental Studies, Faculty of Science, Alexandria, Egypt Title: "Remote Sensing of Natural Hazards" 	id over Cairo and <u>November 2007</u> id over Cairo and <u>September 2007</u> ea Level Rise in <u>June 2007</u> ea Level Rise in <u>May 2007</u> exandria, Egypt <u>November 2005</u> ndria University, <u>October 2005</u>
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 51. Environment (Bea3ty) Channel, Nile Sat, Cairo, Egypt Title: "Using the satellite technology for studying the black clout the Delta, Egypt" 52. Channel 5, Direct broadcasting Alexandria, Egypt Title: "Using the satellite technology for studying the black clout the Delta, Egypt" 53. Stockholm Environment Institute (SEI), Oxford, UK Title: "Adaptation and stake holders to Climate change and Se Alexandria, Egypt" 54. Istituto Nazionale di Geofisica e Vulcanologia, Bologne, Italy Title: "Urban and Costal case studies for Climate change and Se Alexandria, Egypt" 55. Department of Chemistry, Faculty of Science, Alexandria University, Al Title: "Remote Sensing of Fires" 56. Department of Environmental Studies, Faculty of Science, Alexar Alexandria, Egypt Title: "Remote Sensing of Natural Hazards" 57. Department of Environmental Studies, Faculty of Science, Alexar Alexandria, Egypt 	id over Cairo and <u>November 2007</u> id over Cairo and <u>September 2007</u> ea Level Rise in <u>June 2007</u> ea Level Rise in <u>May 2007</u> exandria, Egypt <u>November 2005</u> ndria University, <u>October 2005</u> ndria University,
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 51. Environment (Bea3ty) Channel, Nile Sat, Cairo, Egypt Title: "Using the satellite technology for studying the black clout the Delta, Egypt" 52. Channel 5, Direct broadcasting Alexandria, Egypt Title: "Using the satellite technology for studying the black clout the Delta, Egypt" 53. Stockholm Environment Institute (SEI), Oxford, UK Title: "Adaptation and stake holders to Climate change and Se Alexandria, Egypt" 54. Istituto Nazionale di Geofisica e Vulcanologia, Bologne, Italy Title: "Urban and Costal case studies for Climate change and Se Alexandria, Egypt" 55. Department of Chemistry, Faculty of Science, Alexandria University, Al o Title: "Remote Sensing of Fires" 56. Department of Environmental Studies, Faculty of Science, Alexandria, Egypt Title: "Remote Sensing of Natural Hazards" 57. Department of Environmental Studies, Faculty of Science, Alexandria, Egypt Title: "Remote Sensing of Natural Hazards" 57. Department of Environmental Studies, Faculty of Science, Alexandria, Egypt Title: "Remote Sensing of Natural Hazards" 	id over Cairo and <u>November 2007</u> id over Cairo and <u>September 2007</u> ea Level Rise in <u>June 2007</u> ea Level Rise in <u>May 2007</u> exandria, Egypt <u>November 2005</u> ndria University, <u>October 2005</u> ndria University,
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- 59. Ocean-Land-Atmosphere Studies (COLA), Maryland, USA
 - Title: "Precipitation Variability over Virginia and its relation with El Nino Southern Oscillation"
 April 2004
- 60. George Mason University, Colloquia Series, Fairfax, VA, USA o Title: "Multi Sensor Detection of Dust Storms"

November 2003

- 61. Michael Baker Corporation, Alexandria, VA, USA
 - Title: "Geoenvironmental Monitoring for Fairfax County Assessment of Natural Resources and Hazards"
 January 2002
- 62. Earth Analysis Data Center (EDAC), University of New Mexico, Albuquerque, USA
 - Title: "Estimating Flash Flood Hazard Risk using remote sensing and GIS Technology
 June 2002
- 63. Earth Analysis Data Center (EDAC), University of New Mexico, Albuquerque, USA
 - Title: "The Ground Precipitation Gauge Data Study over Virginia Drainage Basins" June 2002
- 64. Department of Environmental Studies, Faculty of Science, Alexandria University, Alexandria, Egypt
 - Title: "Remote Sensing Applications Over Egypt"

July 2001

- 65. Fairfax County Geographic Information Services, Fairfax, VA, USA
 - Title: "A plan of work for Estimating Flash Flood Hazard in Pond Branch Basin in Fairfax County" <u>November 2001</u>
- 66. National Authority for Remote Sensing and Space Sciences (NARSS), Cairo, Egypt
 - Title: "Introducing new Remote Sensing Techniques and possible uses; Hyperspectral Sensing" <u>November 2000</u>

CAREER DEVELOPMENT TRAINING COURSES

- Attended a workshop on Maximizing Student Learning and Professor Motivation to Teach, Chapman University, Institute for Excellence in Teaching and the Chancellor's Office.
- Attended the National Professional Science Master's Association, regional workshop on "Green and Growing: Environmentally-Focused Professional Science Master's Programs", Hosted by California State University, Monterey Bay, CA. <u>September 2012</u>
- Attended the Teacher Misbehavior workshop, Chapman University teaching mentor program, Faculty dialogues on teaching and learning.
 October 2011
- Attended the Teaching well and loving it: Challenges and Best Practices workshop, Chapman University teaching mentor program, Faculty dialogues on teaching and learning <u>November 2011</u>
- Attended workshop on writing research proposals, Alexandria University. January 2008
- Attended workshop on research management, Alexandria University October 2006
- Attended workshop on ways of teaching and student interaction, Faculty of Fine Arts, Alexandria University, Egypt
 July 2005
- Attended workshop on Skills of Interactive Presentation
 <u>June 2005</u>
- Attended workshop on Skills of Interactive Communication
 June 2005
- Attended work shop and a certified user of HYSPLIT model in National Oceanic and Atmospheric Administration (NOAA), Air Resources Laboratory USA,
 <u>April 2005</u>
- Attended a workshop for Earth Science Satellite Remote Sensing Data Processing, Analysis and Applications, George Mason University
 <u>March 2003</u>

COURSES TAUGHT/CO-TAUGHT (UNDERGRADUATE AND GRADUATE)

	1 DIIV 251. El de denomina de Denodo Consiste Trabajores
	1. PHY 351: Electrodynamics and Remote Sensing Techniques
	2. GEOG 324: Geophysics, Photo Geology and Survey
	3. ENV 405: Remote Sensing
	4. ENV 523: Laser Applications in Environmental Science
Faculty of Science,	5. ENV 623: Environmental Research Methodology
Alexandria	6. ENV 624: Environmental Data Analysis
University	7. ENV 628: Atmospheric Changes
	8. ENV 629: Environmental Remote Sensing
	9. ENV 633: Applied Geophysics
	10. ENV 406: Environmental Pollution and Environmental Health
	11. ENV 321: Environmental Geology and Non-Living Resources
College of Science,	
George Mason	1. EOS 759: Introduction to Natural hazards and remote sensing
U	2. EOS 753: Earth observation
University	
	1. ENV112: Introduction to Natural Hazards and Global Environmenta
	change
	2. ENV329: Remote Sensing of the Environment
Chapman	3. HGEC510: Introduction to Natural Hazards
-	4. PHYS520: Physical Principles of Remote Sensing
University	5. HGEC500: Seminar Series in Natural Hazards
	6. CS500: Seminar Series in Computational Sciences
	7. HGEC664: Topics in Natural Hazards
	8. CS770: Topics Earth Systems Science

INTERN STUDENTS (Outside Chapman University)

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Sawyer Johnson	Santiago Canyon College Summer Intern. Tracking the Effect of Algal
Sawyer Johnson	Mats on Coral Bleaching Using Remote Sensing, (Summer 2014)
	Saddleback College Summer Intern. Change Detection Analysis of
	Coastal Habitat Using Remote Sensing Technologies in the Western
Nehal Idris	Arabian Gulf (Saudi Arabian Coast) over a thirty-year Period
	(Summer 2014)
	Troy High School Summer Intern. Studying Aerosols Chemistry over
Nicholas Pham	the Gulf Region using Aura satellite data, (Summer 2014).
	Troy High School Summer Intern. Aerosols Impact on Vegetation,
Natalie Doung	(Summer 2014).
IL D' IV	Troy High School Summer Intern. Carbon Emissions, (Summer
Ha Bin Kim	2014).
Chris Dao	Troy High School Summer Intern. Wavelet Decomposition of
	atmospheric related parameters over the Arizona Haboob events,
	(Summer 2013).
	Troy High School Summer Intern. Studying different sensors and
Ray Gaddi	satellite paths and parameters addressing major dust storm, (Summer
	2012).

UNDERGRADUATE SCIENCE PROJECTS ADVISOR (Chapman University)

Kiyoko Nakatsui	Possible Precursor Events to Earthquakes and the Resulting Effects on Organic Material in the Surrounding Water Bodies (Spring 2015)
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Elizabeth Flowers	Remote Sensing of Antarctic Peninsula Krill Populations using		
Liizabetii Piowers	Adelie Penguins as an Indicator Species (Spring 2015)		
	How Much of Our Pollution is OUR Pollution? The transport of		
Ariane Jong	anthropogenic aerosols across the Pacific Ocean from China to		
-	the United States (Spring 2015)		
Patsornkarn	Air pollution: a case study of Bangkok, Thailand. An expanding		
Vorapharuek	"megacity" (Spring 2015)		
Londynn Dronnon	Remote Sensing of different marine parameters associated with the		
Jordynn Brennan	Great Pacific Garbage Patch (Fall 2014)		
Shea Pickering	Environmental and Health Impacts in Dominican Republic Based off		
Shea Fickering	Aerosol Pollutants and Other Confounding Factors (Summer 2013)		
Krista Rasmussen	The impact of Haboob events on Precipitation patterns in Arizona: A		
Kiista Kasiilussen	Cross-Correlation Analysis (SURF winner, Summer 2013)		
Malia Horch	Human Impact on Climate Change in the Antarctic Region (SURF		
	winner, Summer 2012)		
Jennifer Magaña	Multisensor and Model Observations Approach in Studying the Great		
	Pacific Garbage Patch (Spring 2012)		
Jeanette Pineda	Impact of Black Carbon Aerosol on Health of Arctic Glaciers (Spring		
A	<u>2012)</u>		
Amanda L.	Utilizing Remote Sensing Data to Detect the Deepwater Horizon Oil		
Kristedja	Spill Properties (Spring 2011)		
Brenden Brown,	El Nino in the Eastern Pacific (Spring 2010)		
Connor O'Brien			
and Haley Holroyd			
Lauren Curtis	Aerosol Optical Thickness Inter-comparison for Selected Locations Around the World (Spring 2010)		
Michael Mehlhaff	Impact of Retreating Glaciers in Greenland and Chile (Spring 2010)		
Camille Del Fierro	Measures of Chlorophyll Content versus Black Carbon along the		
and Ravi Lloyd	California Coast (Spring 2010)		
Tara Dalbow and	Atmospheric Pollution Over L.A. & Johannesburg (Spring 2010)		
Darin Nakatsu			
Tyler Reymore,	Sustaining the Present and Greening the Future: A Case Study on		
Rajiv Melwani and	recognizing The Frontier Project's technology (Spring 2010)		
Pasqual Gutierrez			
Aileen Gaudinez	Applying SVD and PCA to LiDAR based topography data (Fall 2010)		

GRADUATE COMMITTEES CHAIR AND CO-ADVISOR

	1.	Kendall Holmes "Remote Sensing of Coral Reefs in the Gulf Region"
		School of Computational Sciences, Schmid College of Science and
		Technology, Chapman University. Current
	2.	Rachel Baugh "How Climate Change Affects Thermohaline
MS. Degrees		Circulation in the North Atlantic" School of Earth and Environmental
-		Sciences, Schmid College of Science and Technology, Chapman
		University. <u>Current</u>
	3.	Jeanette Pineda "Environmental Risks in the Southwest United States
		and Associated Health Impacts " School of Earth and Environmental

	Sciences, Schmid College of Science and Technology, Chapman
	University. <u>Current</u>
4.	"Sabry Abd El Mohsen Mohamed "Geo electric survey, ground and
	remotely sensed data analysis for studying environmental pollution
	over selected areas in Alexandria and Elbehera Governorates",
	Department of Physics, Faculty of Science, Alexandria University,
	Egypt. <u>Current</u>
5	Kristen Whitney "Remote Sensing Using MODIS Offshore of
5.	Southern California and the East Pacific Garbage Patch" School of
	Computational Sciences, Schmid College of Science and Technology,
	Chapman University. <u>2014</u>
6.	Thomas Banh "Mapping the Progression of Phytophthora Ramorum"
0.	School of Earth and Environmental Sciences, Schmid College of
	-
7	Science and Technology, Chapman University. <u>2014</u>
7.	Xinyi Zhang "Analysis of the Dust Aerosols effect on the Sierra
	Nevada Glaciers using Remote Sensing over 13 years", School of
	Earth and Environmental Sciences, Schmid College of Science and
	Technology, Chapman University. 2014
8.	Tommy Ta "Change Detection of Glacial Retreat in the Sierra
	Nevada's from 2000 to 2014", School of Earth and Environmental
	Sciences, Schmid College of Science and Technology, Chapman
	University. <u>2014</u>
9.	Andrew Fontenot "Impacts of Dust storms on the cyclogenesis of
	Hurricanes", School of Computational Sciences, Schmid College of
	Science and Technology, Chapman University. 2013
10.	Luciano Rodriguez "Precipitation data analysis over California
	climate divisions", School of Computational Sciences, Schmid
	College of Science and Technology, Chapman University. 2013
11.	Daniel Kalahele "Sea level rise and Coastal erosion: A look at Hawaii's
	changing coastline, current threats and adaptations for the future",
	School of Earth and Environmental Sciences, Schmid College of
	Science and Technology, Chapman University. 2013
12	Yibing Jiang "Monitoring of tropospheric CO2 spatial and temporal
12.	distribution changes over China", School of Earth and Environmental
	Sciences, Schmid College of Science and Technology, Chapman
	University. <u>2013</u>
12	Mubei Sun "Analysis of snow cover changes in the Himalayan region
13.	using MODIS snow products and in-situ temperature data", School of
	Earth and Environmental Sciences, Schmid College of Science and
1.4	Technology, Chapman University. <u>2013</u>
14.	David Stack "Extending the APSIM crop model: a pilot study in
	regional scale yield simulation", School of Earth and Environmental
	Sciences, Schmid College of Science and Technology, Chapman
	University. <u>2012</u>
15.	Mariam Osmane, "Analysis of Climate Change Indicators over the
	Mediterranean Basin", Department of Environmental Studies, Faculty
	of Science, Alexandria University, Egypt. 2012
16.	Yasmin Ahmed Sami Abo el Fetouh, "Satellite for Remote Sensing of
	Air Pollution Over Egypt", Institute of Graduate Studies and
	Research, Department of Environmental Studies, Alexandria

	 17. Sunmin Park "Comparative analysis on interpolation methods for spatial distribution of air pollutants in Seoul" Department of Climate Environment Graduate School of Life and Environmental Sciences, Korea University, Seoul, Korea. <u>2011</u> 18. Hossam El-Dien Mohammed El-Sayed "Environmental Investigation on Lake Maryut, West of Alexandria, Egypt: Geochemical, Geophysical and Remote Sensing Studies", Department of Geology, Faculty of Science, Alexandria University, Egypt. <u>2010</u>
	 Sara Hamdy Abd Elmoula, "Remote Sensing of Coral Reefs Case Study: South of Suez Gulf", Institute of Graduate Studies and Research, Department of Environmental Studies, Alexandria University, Egypt. <u>2009</u> Rania Farouk, "Air pollution Monitoring using Micro tops instrument over Alexandria", Department of Environmental Studies, Faculty of
Ph.D Degrees	 Science, Alexandria University, Egypt. 2008 Justin Gapper, "Remote Sensing of Coral reefs", Main Advisor (Chapman University) <u>Current</u> Wenzhao Lee, "Synergistic use of earth observations and modeling on marine environment" Main Advisor (Chapman University) <u>Current</u> Sunmin Park, "Topic Under Consideration", second Advisor (UCR) <u>Current</u> Justin Lee, "Machine learning of Drought related indicators", Main Advisor (Chapman University) <u>Current</u> Kristen Whitney, "Remote Sensing of Soil Salinity and Vegetation", Main Advisor (Chapman University) <u>Current</u> Luciano Rodriguez, "Climate Change impact on the California climate Divisions", Main Advisor (Chapman University) <u>Current</u> Andrew Fontenot, "Dust Impact on Hurricanes Formation", Main Advisor (Chapman University) <u>2017</u> Heballah Saed, "Remote Sensing of Air quality over Cairo, Case study: Black Cloud", Institute of Graduate Studies and Research, Department of Environmental Studies, Alexandria University, Egypt, (Channel 2 years at NCAR, BO, Colorado). <u>2011</u> Abhishek Agarwal, "Efficient PCA Fusion Techniques for Monitoring Dust Storms using MISR Multi-angle Observations", George Washington University, USA (Not Official Yet)

AWARDS RECEIVED

Honor Awards	 Game Changer Award – Orange County Business Council, Award of Alumni Achievement – Alexandria University, Wang Fradkin Professor Award – Chapman University's highest faculty award in recognition of exceptional merit in scholarly or
	 creative activity. <u>2019</u> Valerie Scudder Award – in recognition of outstanding achievement in teaching, scholarly/creative activity, and service to the University. <u>2012</u>
	Award of Excellence in Scholarly/Creative Activity, Chapman University <u>201</u>

	• Faculty of Science Award for winning the Saudi Arabia Prize for the
	 best article in Environmental Management Postdoctoral Fellowship, Center for Earth Observing and Space Research George Mason University 2004– 2005
	Medal in the Honor Society of International Scholars (Phi Beta Delta) <u>2002</u>
	Governmental Scholarship for Doctoral Degree in Environmental physics and Remote Sensing from George Mason University, USA 2000 – 2004
	University medal for graduating as the first of Faculty of Science among all departments and highest score ever in the history of the Faculty of Science <u>1997</u>
Winning Competitions	 Saudi Arabia Prize for Best Published Article in Environmental Management among 150 articles from the Arab Administrative Development Organization, affiliated with the League of Arab States <u>2006</u> University medal for wining first position in Faculty of Science, Alexandria University, and third position over the Country's Universities in the competition of ideal student <u>1996</u>
Travel Awards	• Travel Award to Tunisia representing Egyptian universities after winning ideal student competition 1996

AFFILIATIONS

- Member of the Honor Society of International Scholars (Phi Beta Delta).
- Associate member of the Committee on Space Research (COSPAR).
- Member of the American Geophysical Union (AGU).
- Member of the European Geophysical Union (EGU).
- Member of the Asia Oceania Geoscience Society (AOGS).
- Member of the Egyptian nonprofit organization "Friends of the Environment"
- Member of the Sensors committee through NARSS for research and development.
- Member of the IEEE and remote sensing society.
- Elected Member, The international advisory council of the climate change center affiliated with the Korea Green Foundation.

TECHNICAL PROFICIENCY

Technical Area	Product	Proficiency	
Remote	• ENVI	• Expert	
Sensing/Image	• ERDAS	• Good	
6 6	• Matlab	Very Good	
Processing	Orbit Viewer	Very Good	
	ESRI Products	Very Good	
GIS Software	IDRISI GIS	• Good	
Statistics/Time	• Matlab	• Expert	
Series Analysis	• SPSS	Very Good	

	٠	EXCEL	٠	Expert
	٠	SPlus	•	Good
Operating Systems	•	SGI Irix, Linux	•	Very Good
	•	Windows NT, XP, Prof.	•	Expert
Programming Languages	٠	C++	•	Good
	•	Java Script	•	Very Good
	•	HTML	•	Very Good

RESEARCH INTERESTS

- Impact of dust on Hurricanes formation and other marine ecosystems including coral reefs
- Global environmental change.
- Atmospheric pollution over megacities.
- Visualizing and Analyzing Earth Science data.
- Interdisciplinary studies in Earth system science, including precipitation and climate Phenomena coupling.
- Dust storms monitoring using multisensor approaches.
- Change detections and Land use/land cover assessments.
- Model coupling with remote sensing for dust storms detection.
- Flash Flood Hazards Mitigation and detecting the effect of the ENSO signal with different climatic parameters and GIS applications.

TEACHING COURSES INCLUDE

Remote Sensing And GIS	 Physical principles of Remote Sensing Earth Observation and remote sensing Data/Systems Introduction Hyperspectral Sensing Environmental Remote Sensing Remote Sensing Applications and Climate Change Advanced Remote Sensing Introduction to Geographic Information System CUS applications 	
Earth Sciences	 GIS applications Earth System Sciences and Global Change Natural Hazards Introduction to Meteorology Atmospheric Processes and Climate Change Observing Earth & its Climate Introduction to Earth System Science Physics of the Atmosphere 	
Physics and Geophysics	 Electricity and Magnetism Electronics and Waves Heat and Thermodynamics Optics and Properties of Matter Introduction to Laser and its Applications Applied Geophysics 	

SYNERGISTIC ACTIVITIES

- Title: e-shape for strengthening the benefits for Europe of the Global Earth Observation System of Systems (GEOSS) – establishing 'EuroGEOSS' Funding: EU HORIZON 2020 (2019-2022) Role: Showcase participant
- **Title:** International Network to Encourage the Use of Monitoring and Forecasting Dust Products (inDust); COST Action CA16202, **Funding:** EU HORIZON 2020 (2018-2021) **Role:** Dissemination and capacity building Vice-Leader
- **Title:** "GEO-CRADLE, which stands for Coordinating and integrating state-of-the-art Earth Observation Activities in the regions of North Africa, Middle East and Balkans and Developing Links with GEO related initiatives toward GEOSS" **Funding:** EU HORIZON 2020 (2016-2019) **Role:** Regional Co-coordinator.
- **Title:** "REU Site: Summer Undergraduate Research Fellowships in Earth and Environmental Sciences (SURFEES)" **Funding:** NSF (2014-2017) **Role:** CO-I
- **Title:** "Natural and Anthropogenic Aerosols Transport over the Arabian Gulf", **Funding:** King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia (2013-2016) **Role:** CO-PI/International Consultant
- Title: "Studying Air Quality Dynamics using Remotely Sensed Atmospheric Parameters" at the King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia Funding: King Abdel Aziz City for Science and Technology (KACST), Saudi Arabia (2013-2015) Role: CO-PI/International Consultant
- **Title:** "Enhancing Wildland Fire Decision Support and Warning Systems" **Funding:** Jet Propulsion Laboratory (JPL) (2013-2014) **Role:** CO-I
- **Title:** "Studying the impact of Sea Level Rise (SLR) over the Nile Delta: A Multisensor Approach" **Funding:** Chapman University (2012-2014) **Role:** PI
- **Title:** "Collaborative Research: Type 1 Multi-Model Regional Simulation of Climate Change Impacts on Agriculture and Ecosystems in the Southwestern United States" **Funding:** USDA-NSF-NIFA (2011-2013) **Role:** CO-I
- **Title:** "Studying Air Quality Dynamics using A Linear Genetic Programming Approach over Remotely Sensed Atmospheric Parameters: case study (Cairo, Egypt)" **Funding:** NSF Award for US-Egypt joint research agreement (Contract No 0922772) (2009-2012), **Role:** PI
- Title: "Air Quality Over Cairo: Remote Sensing and Ground Observations" Funding: USDA Award for US-Egypt joint research agreement (Contract No. 58-3148-7-044) (2006-2009), Role: CO-PI
- Title: "Climate Change and Impact Research: the Mediterranean Environment (CIRCE)" Funding: The Commission of the European Union FP6 (Contract No. 036961 GOCE) (2006-2010), Role: CO-PI
- **Title:** "Global and Environmental Change: Hazards and Regional impact" **Funding:** NASA Award (Contract No. NNX06AF30G) (2004-2008), **Role:** CO-I
- CO-I NASA, Congress awards Virginia Access Middle Atlantic Geospatial Information Consortium (Virginia Access Magic)
- Served as a reviewer for many journals including IEEE Transactions of Geosciences and Remote Sensing, Remote Sensing of the Environment, Journal of Geophysical Research, Atmospheric Environment, Atmospheric Chemistry and Physics and Advances in Space Research and others.
- Lead guest editor of the special issue "Remote sensing and Modeling of Atmospheric Dust and Studying its Impact on Environment, Weather, and Climate", in Advances in Meteorology Journal, <u>http://www.hindawi.com/journals/amete/si/745645/cfp/</u>
- Program Chair Interface 2013: Chapman University Symposium on Big Data and Analytics: 44th Symposium on the Interface of Computing Science and Statistics, <u>http://www.chapman.edu/events/past-events/interface-2013/index.aspx</u>

• Received a notification about my chapter "Analyzing Black Cloud Dynamics over Cairo, Nile Delta Region and Alexandria using Aerosols and Water Vapor Data" that I have published with InTech in the book "Air Quality-Models and Applications" has so far been accessed 3000 times and has achieved impressive readership results.