

DR. LUCY SEMERJIAN	MAILING ADDRESS: Department of Environmental Health Sciences College of Health Sciences University of Sharjah P.O.Box 27272 Sharjah , UAE TEL: 00 971 6 505 7426 FAX: 00 971 6 505 7502 E-mail: lsemerjian@sharjah.ac.ae
---------------------------	---

EDUCATIONAL BACKGROUND

- July 2005 Ph.D. in Environmental Sciences
School of Archeological, Geographical and Environmental Sciences
University of Bradford, West Yorkshire – United Kingdom
- June 2000 M.S. in Environmental Sciences
(Major: Environmental Technology)
Faculty of Engineering & Architecture (FEA)
American University of Beirut (AUB), Beirut – Lebanon
- July 1994 B.S. in Health Sciences
(Major: Medical Laboratory Technology)
Faculty of Health Sciences
American University of Beirut, Beirut – Lebanon
Dean's Honor List

PROFESSIONAL EXPERIENCE

- Sep 2017 - Present Chairperson
Department of Environmental Health Sciences
College of Health Sciences
University of Sharjah (UOS) – Sharjah, UAE
- Sep 2015 - Present Assistant Professor
Department of Environmental Health Sciences
College of Health Sciences
University of Sharjah (UOS) – Sharjah, UAE
- Oct 2014 – Aug 2015 Environmental Consultant – Lead Water Quality and
Wastewater Expert for “Development of Environmental Health
for the Emirate of Dubai - Dubai Municipality”, for *Earth Link
and Advanced Resources Development*, Dubai, UAE
- Jan 2014 – Aug 2015 Environmental Consultant - Lead Water Quality Expert for
“Water Quality Survey for the Common Seawater Supply
Project – South Oil Company”, for *Earth Link and Advanced
Resources Development*, Dubai, UAE

- Jan. 2014-June 2014 Adjunct Faculty in Environmental Science and Technology
Department of Civil Engineering, School of Engineering
American University in Dubai (AUD) –Dubai, UAE
- Jan 2001-July 2013 Research Associate / Lecturer/ Coordinator of Environmental
Engineering Research Center
Civil & Environmental Engineering (CEE)-FEA
American University of Beirut (AUB), Beirut - Lebanon

Main Tasks

- ❑ Development and delivery of graduate/undergraduate courses in Environmental Sciences and Engineering
 - ❑ Conducting research related to environmental science and technology
 - ❑ Collaborating with faculty members and graduate students
 - ❑ Management and operation of the Environmental Engineering Research Center as a state-of-art service testing facility as well as graduate research center
- Nov. 1994-Dec. 2000 Senior Master in Environmental Control
Department of Civil & Environmental Engineering-FEA
American University of Beirut - Lebanon

TEACHING EXPERIENCE

Lecturer/Co-lecturer for the following courses:

- Management of Hazardous Wastes** – Environmental Health/UOS (UG, 2015-present)
Water and Wastewater Sanitation – Environmental Health/UOS (UG, 2015-present)
Environmental Legislations – Environmental Health/UOS (UG, 2015-present)
Integrated Solid Waste Management – Environmental Health/UOS (UG, 2015-present)
Local Environmental Issues – Environmental Health/UOS (UG, 2015-present)
Marine Ecology – Environmental Health/UOS (UG, 2015-present)
Graduation Projects – Environmental Health/UOS (UG, 2015-present)
Introduction to Health Sciences – Environmental Health/UOS (UG, 2016-2017)
Environmental Engineering with Laboratory – Civil Engineering/AUD (UG, 2014)
Environmental Microbiology – CEE/AUB (UG, 2005-2013)
Water and Wastewater Treatment & Laboratory – CEE/AUB (G/UG, 2003-2013)
Environmental Technology – CEE/AUB (G, 2007-2008)
Environmental Engineering – CEE/AUB (UG, 2006-2008)
Environmental Chemistry & Microbiology – CEE/AUB (G, 2001-2004)
Methods of Environmental Sampling and Analysis – CEE/AUB (G, 2002-2004)

PROFICIENCY AREAS

- Water quality and treatment
- Wastewater treatment and reuse
- Environmental/aquatic chemistry
- Water/wastewater microbiology
- Emerging environmental contaminants (pharmaceuticals, hormones, personal care products)

Environmental sampling methods and protocols
Environmental analyses, instrumentation, and data analysis
Solid/hazardous waste management

RESEARCH INTERESTS

My broad research interests are related to the field of environmental sciences and technology. However throughout my academic and professional years, I was particularly involved and built up interest in research projects related to water and wastewater treatment and reuse; water/wastewater quality assessment and monitoring; water treatment chemistry – disinfection and disinfection by-products; metal removal technologies, pollutant adsorption isotherms and kinetic studies, electro-coagulation, emerging contaminants (pharmaceuticals, hormones, and personal care products); water/wastewater microbiology; microbiology and construction materials (bioconcrete), environmental sampling protocols, analytical chemistry and instrumentation.

Recent research projects:

- Investigating emerging contaminants, namely pharmaceuticals and hormones, in wastewater reuse and various environmental systems and associated risk assessments (human and ecological)
- Water quality assessments in water storage tanks, public coolers, bottled water, surface and groundwater and associated risk assessments
- Enhancing the in situ biodegradation of polycyclic aromatic hydrocarbons in marine sediments using sediment microbial fuel cells
- Pollutant removal from wastewaters using electrocoagulation
- Pollutant removal from wastewaters using innovative low-cost adsorbents and chemicals

AWARDED RESEARCH GRANTS

Duration	Title	Supporting Agency	Amount
2016-2018	Emerging Contaminants Affecting Wastewater Reuse in The Emirate of Sharjah, United Arab Emirates A. Shanableh, L. Semerjian , M. Harb Semreen, DRI, SRA	UOS, Sharjah Research Academy, Desert Research Institute – Nevada-USA	80,000.- AED
2016-2018	Assessing Water Quality in Building Water Storage Tanks in Selected Areas of Sharjah. L. Semerjian	University Research Board - UOS	32,000.- AED
2013 -2014	Occurrence of Pharmaceuticals and Hormones in Effluent Discharges and Rivers in Lebanon. M. Al-Hindi, D. Salam, W. Saad, L. Semerjian	FEA Dean's Office, AUB	\$ 21,300

Duration	Title	Supporting Agency	Amount
2012-2013	Bioremediation of PAH-contaminated marine sediments using sediment microbial fuel cells. D. Salam, H. Hamdan, L. Semerjian , P. Saikaly	University Research Board-AUB	\$ 10,000
2009-2011	Microbial fuel cells and thermophilic anaerobic digestion: Biotechnology advancements providing sustainable solutions to energy insecurity in developing countries P. Saikaly, M. El-Fadel, E. Barbour, L. Semerjian , and S. Ghanimeh	Munib & Angela Masri Institute of Energy & Natural Resources, Lebanon	\$ 20,000
2003-2005	Assessment of trihalomethane formation in selected public drinking waters of Lebanon. G.M. Ayoub and L. Semerjian	National Council for Scientific Research, Lebanon	7,000,000 LBP

UNDERGRADUATE GRADUATION PROJECTS & GRADUATE THESIS SUPERVISION

1. Graduation Project Supervisor, "Effects of Adding Dried Sardine Fish in Irrigation Water Tanks on Water Quality and Growth of Plants: Case Study from Sharjah- United Arab Emirates", Afra Khalfan Al Ketbi and Meera Musabeh Al Teneiji, Environmental Health Sciences, UOS, Spring 2018-19 (1st place winner from Environmental Health Sciences, CHS Annual Students Research Forum, University of Sharjah, May 2, 2019).
2. Graduation Project Supervisor, "Water Quality Assessment of Urban and Rural Artificial Surface water bodies in United Arab Emirates", Ala Rahma Saeed Alshamsi and Mohammed Sami Abdulaziz, Environmental Health Sciences, UOS, Spring 2018-19 (2nd place winner from Environmental Health Sciences, CHS Annual Students Research Forum, University of Sharjah, May 2, 2019).
3. Graduation Project Supervisor, "Radioactivity in bottled waters, associated doses and lifetime risk assessment in the United Arab Emirates", Hadya AlRajabi, Nimra Naaz, and Rim Kasfah, Environmental Health Sciences, UOS, Spring 2017-18 (Winner of best Graduation Project Award from EHS, CHS Research Forum/UoS).
4. Graduation Project Supervisor, "A Comparative Study of Microbial Contamination Between University and Household Bottled Water Dispensers", M. Ibrahim and B. Mohammed, Environmental Health Sciences, UOS, Fall 2017-18.
5. Graduation Project Supervisor, "What is in Your Household Water Storage Tank? A Quality Assessment in Selected Areas of Sharjah", H. Obaid and H. Zarouni, Environmental Health Sciences, UOS, Spring 2016-17 (6th place Graduation Project Award from CHS, CHS Research Forum/UoS).

6. Graduation Project Supervisor, “Management of Sensitive Marine Species during Construction of Artificial Coastal Developments in UAE: The Case of Coral Reefs”, J. Al Mheiri, Environmental Health Sciences, UOS, Spring 2016-17.
7. PhD thesis committee member, “Microbial degradation of high molecular weight PAHs and weathered crude oil using marine SMFCs”, H. Hamdan, PhD Environmental and Water Resources Engineering, American University of Beirut, Lebanon, expected 2019.
8. MS thesis committee member, “Effect of Algal Surface Area And Species Interactions in Toxicity Testing Bioassays”, L. Kamareddine, MS Environmental Technology, Faculty of Engineering & Architecture, American University of Beirut, Lebanon, Sep 2017.
9. Graduation Project Supervisor, “Water Quality Assessment of Selected Public Water Coolers in Sharjah, UAE”, A. Yousef, N. Al Jabri, and S. Abdulmonim, Environmental Health Sciences, UOS, Spring 2015-16.
10. Graduation Project Supervisor, “Microbial Concrete”, E. Haber, E. Mouannes, S. Kayali El Alem, J. Ewies, and H. Al Daawi, Final Year Project – Civil and Environmental Engineering, Faculty of Engineering & Architecture, American University of Beirut, Lebanon, 2014 (Best Graduation Project Award, CEE/FEA/AUB).
11. Thesis committee member, “Bioremediation of PAH-contaminated marine sediments using sediment microbial fuel cells”, H. Hamdan, MS Environmental Technology, AUB, 2014.
12. Thesis committee member, “Transfer of bacteria and pharmaceuticals via vapor in solar desalination units”, L. Dahdah, MS Environmental Technology, AUB, 2013.
13. Thesis committee member, “Integrating microbial fuel cells into rotating biological contactor systems for simultaneous wastewater treatment and electricity generation”, R. Sayess, MS Environmental Technology, AUB, 2011.
14. Thesis committee member, “Harvesting electricity from the organic fraction of municipal solid waste using microbial fuel cells”, J. El Chakhtoura, MS Environmental Technology, AUB, 2011.

ACADEMIC PUBLICATIONS & PARTICIPATED CONFERENCES

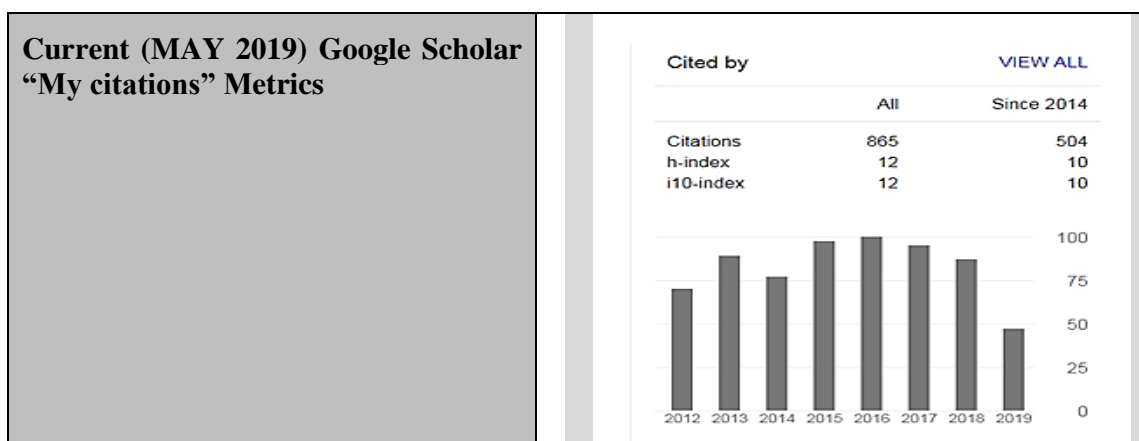
www.researchgate.net/profile/Lucy_Semerjian
<https://scholar.google.ae/citations?hl=en&user=RjrxhAMAAAAJ>
<https://www.scopus.com/authid/detail.uri?authorId=14326045700>
<https://orcid.org/0000-0002-6683-2075>

1. M. Semreen, A. Shanableh, **L. Semerjian**, H. Alniss, M. Mousa, X. Bai, and K. Acharya, “Simultaneous Determination of Pharmaceuticals by Solid-Phase Extraction and Liquid Chromatography-Tandem Mass Spectrometry: a case study from Sharjah Sewage Treatment Plant”, *Molecules*, 24, 633, 2019, doi:10.3390/molecules240306332019.
2. **L. Semerjian**, A. Shanableh, M. Semreen, M. Samarai, “Human Health Risk Assessment of Pharmaceuticals in Treated Wastewater Reused for Non-potable Applications in Sharjah, United Arab Emirates”, *Environment International*, 121, pp. 325-331, 2018.

3. **L. Semerjian**, “Removal of Heavy Metals (Cu, Pb) from Aqueous Solutions Using Pine (*Pinus halepensis*) Sawdust: Equilibrium, Kinetic, and Thermodynamic Studies, *Environmental Technology & Innovation*, 12, pp. 91-103, 2018.
4. E. Dalah, H. Elmehdi, K. Al Humaidan, **L. Semerjian**, “Estimate of UAE commercial aircrew effective doses using CARI6, EPCARD and SIEVERT codes”, *Radiation Protection Dosimetry*, 2018 (in print), 1-7.
5. A. Shanableh, M. Semreen, **L. Semerjian** , M. Abdallah, M. Mousa, N. Darwish and Z. Baalbaki, “Presence and Fate of Contaminants of Emerging Concern (CECs) In Sharjah Main Wastewater Treatment Plant”, *Journal of Environmental Engineering and Science*, published on-line 24 October, 2018, <http://dx.doi.org/10.1680/jenes.18.00029>.
6. **L. Semerjian**, “Removal of Heavy Metals from Aqueous Solutions Using Pine (*Pinus halepensis*) Sawdust: Equilibrium, Kinetic, and Thermodynamic Studies”, *The Third Symposium on Chemistry and Environment*, University of Sharjah, Jan 24, 2019.
7. Hadya Al Rajabi, Nimra Naaz, Rim Kasfah, and **Lucy Semerjian**, “Radioactivity in bottled waters, associated doses and lifetime risk assessment in the United Arab Emirates”, *12th Dubai International Food Safety Conference*, 29-31 Oct 2018 (First-place winner award- student presentation)
8. **L. Semerjian**, H. Al Rajabi, N. Naaz, R. Kasfah, “Radioactivity in bottled waters, associated doses and lifetime risk assessment in the United Arab Emirates”, *Dubai International Nutrition Congress*, 24-26 Oct, 2018.
9. A. Shanableh, M. Semreen, **L. Semerjian** , M. Mousa and N. Darwish, “Presence and Fate of Contaminants of Emerging Concern (CECs) In Sharjah Main Wastewater Treatment Plant”, *International Conference on Civil and Infrastructure Engineering (ICCIE’2018)*, March 13-14, 2018, American University of Ras Al Khaimah (AURAK) – Ras Al Khaimah, UAE
10. **Semerjian, L.**, Abdulmonim, S., Al-Jabri, N., and Yousef, A., “Water Quality Assessment of Selected Public Water Coolers in Sharjah, UAE”, *4th International Conference on Water and Society*, June 5-7, 2017, Seville, Spain.
11. Hamdan H., Salam, D., Hari, A.R., **Semerjian, L.**, Saikaly, P., “Bioremediation of PAHs-Contaminated Marine Sediments Using SMFCs Under Different Redox Conditions”, *Fourth International Symposium on Bioremediation and Sustainable Environmental Technologies*, May 22-25, 2017, Miami, Florida, USA.
12. **Semerjian, L.**, Abdulmonim, S., Al-Jabri, N., and Yousef, A., “Water Quality Assessment of Selected Public Water Coolers in Sharjah, UAE”, *Wessex Institute of Technology Transactions on Ecology and the Environment*, vol. 216, 2017.

13. Hamdan H., Salam, D., Hari, A.R., **Semerjian, L.**, Saikaly, P., “Assessment of the performance of SMFCs in the bioremediation of PAHs in contaminated marine sediments under different redox conditions and analysis of the associated microbial communities”, *Science of the Total Environment*, 575C, pp. 1453-1461, 2017. <http://dx.doi.org/10.1016/j.scitotenv.2016.09.232>
14. **Semerjian, L.**, “Untreated pine (*Pinus halepensis*) sawdust: A promising cost-effective adsorbent for minimizing environmental health risks from cadmium pollution”, *International Conference on Solutions for a Better Life: Future World Leaders*, 21-25 Feb 2016, UOS, UAE.
15. **Semerjian, L.**, Damaj, A., and Salam, D., “Comparative study of humic acid removal and floc characteristics by electrocoagulation and chemical coagulation”, *Environmental Monitoring and Assessment*, 187(11), pp. 670-685, 2015.
16. **Semerjian, L.**, Haber E., Mouannes, E., Kayali ElAlem, S., Ewies, J, and Al Daawi, H., “Microbial Concrete”, *13th FEA Student and Alumni Conference*, American University of Beirut, 2014 (**Best Paper Award**)
17. Sayess, R., Saikaly, P. E., El-Fadel, M., Lib, D., and **Semerjian L.**, “Reactor performance in terms of COD and nitrogen removal and bacterial community structure of a three-stage rotating bioelectrochemical contactor”, *Water Research*, 47(2), pp. 881-94, 2013.
18. Saadeh M., **Semerjian, L.**, and Amacha, N., “Physicochemical evaluation of the upper Litani River watershed, Lebanon,” *The Scientific World Journal*, vol. 2012, Article ID 462467, 2012.
19. Ayoub, G. M., Hamzeh, A., and **Semerjian, L.**, “Post treatment of tannery wastewater using lime/bittern coagulation and activated carbon adsorption”, *Desalination*, vol. 273, No. 2-3, pp.359-365, 2011.
20. Sayess R., Saikaly P., El-Fadel M. , Ayoub G. , and **Semerjian L.** “Integrating Microbial Fuel Cells into Rotating Biological Contactor Systems for Simultaneous Wastewater Treatment and Electricity Generation”, *Third International Microbial Fuel Cell Conference*, Netherlands, June 6-8, 2011.
21. **Semerjian, L.**, “Equilibrium and kinetics of cadmium adsorption from aqueous solutions using untreated *Pinus halepensis* sawdust”, *Journal of Hazardous Materials*, vol. 173, pp. 236-242, 2010.
22. **Semerjian, L.**, “Quality assessment of various bottled waters marketed in Lebanon”, *Environmental Monitoring and Assessment*, vol. 172, No. 1-4, pp. 275-285, 2010.
23. **Semerjian, L.**, Dennis, J., and Ayoub, G. “Trihalomethane formation potential in selected drinking waters of Lebanon”, *Water Science and Technology: Water Supply*, vol. 9, issue 3, pp. 321-335, 2009.
24. **Semerjian, L.**, Dennis, J., and Ayoub, G. “Modeling the formation of trihalomethanes in drinking waters of Lebanon”, *Environmental Monitoring and Assessment*, vol. 149, issue 1, pp. 429-436, 2009.
25. **Semerjian, L.**, Dennis, J., and Ayoub, G. “Occurrence, formation, and speciation of trihalomethanes in drinking waters of Lebanon”, *Proceedings of 10th International Conference on Environmental Science and Technology (CEST 2007)*, Kos Island, Greece, 5-7 Sep, 2007.

26. **Semerjian, L.**, Dennis, J., and Ayoub, G. "Spatial and seasonal evolution of trihalomethanes in water distribution systems in Lebanon", *Journal of Water Supply: Research & Technology-AQUA*, vol. 56, No. 4, pp. 263-273, 2007.
27. **Semerjian, L.**, and Dennis, J. "Multipathway risk assessment of trihalomethane exposure in drinking water of Lebanon", *Journal of Water & Health*, vol. 5, No. 4, 511-522, 2007.
28. Ayoub, G., and **Semerjian, L.** "Low cost processes for the removal of phosphates in water and wastewater", *International Journal of Environmental Technology and Management*, vol. 6, No. 5, pp. 448-465, 2006.
29. Ayoub, G., and **Semerjian, L.** "Low cost processes for the removal of phosphates in water and wastewater", *First International Conference on Sustainable Urban Wastewater Treatment and Reuse*, 15-16 Sep 2005, Nicosia, Cyprus.
30. **Semerjian, L.**, El-Fadel, M., Zurayk., R., and Nuwayhid, I., "An interdisciplinary approach to environmental education", *Journal of Professional Issues in Engineering Education and Practice*, American Society of Civil Engineers, vol. 130, No. 3, pp. 173-181, 2004.
31. **Semerjian, L.**, and Ayoub, G. M., "High pH-magnesium coagulation-flocculation in wastewater treatment", *Advances in Environmental Research*, vol. 7, No. 2, pp. 141-155, 2003.
32. El-Fadel M., Maroun R., **Semerjian L.**, and Harajli H., "A health-based socio-economic assessment of drinking water quality: The case of Lebanon", *Management of Environmental Quality: An International Journal*, vol. 14, No. 3, pp. 353-368, 2003 (**Emerald Literati Award of Excellence 2004**)
33. Ayoub, G., **Semerjian, L.**, Acra, A., El-Fadel, M., and Koopman, B. "Heavy metal removal by coagulation with seawater liquid bittern", *Journal of Environmental Engineering*, American Society of Civil Engineers, vol. 127, No. 3, pp.196-207, March 2001.
34. El-Fadel, M., Massoud, M., and **Semerjian, L.** "Energy related GHG emissions: Assessment of emission factor uncertainty", *World Resource Review*, vol. 13, No. 1, pp. 61-73, 2001.
35. Ayoub, G., **Semerjian, L.**, and El-Fadel, M. "Seawater liquid bittern: A potential coagulant for heavy metals", *Lebanese National Council for Scientific Research Conference*, 23-25 November 2000, American University of Beirut, Lebanon.



**Current (MAY 2019) Google Scholar
"My citations" Metrics**

ACADEMIC AWARDS & RECOGNITION (PERSONAL AND SUPERVISION)

- ❑ Sharjah Islamic Bank Award for Distinguished Research 2018-2019: Faculty Category – **Dr. Lucy Semerjian**
- ❑ First-place award from the Department of Environmental Health Sciences for the Graduation Project “Effects of Adding Dried Sardine Fish in Irrigation Water Tanks on Water Quality and Growth of Plants: Case Study from Sharjah- United Arab Emirates”, Afra Khalfan Al Ketbi and Meera Musabeh Al Teneiji, (**Semerjian, L.** –Research Project Supervisor), College of Health Sciences Students Research Forum, University of Sharjah, May 2019.
- ❑ Second-place award from the Department of Environmental Health Sciences for the Graduation Project “Water Quality Assessment of Urban and Rural Artificial Surface water bodies in United Arab Emirates”, Ala Rahma Saeed Alshamsi and Mohammed Sami Abdulaziz, (**Semerjian, L.** –Research Project Supervisor), College of Health Sciences Students Research Forum, University of Sharjah, May 2019.
- ❑ First-place winner award- student presentation for “Radioactivity in bottled waters, associated doses and lifetime risk assessment in the United Arab Emirates”, Hadya Al Rajabi, Nimra Naaz, and Rim Kasfah (**Semerjian, L.** –Research Project Supervisor), 12th *Dubai International Food Safety Conference*, 29-31 Oct 2018.
- ❑ Second runner up award in the 18th Cycle of Intercollege Environmental Public Speaking Competition organized by Emirates Environmental Group in the Theme “Impact of Fashion and Make up Industry on the Environment”, Students: Sara Al Darras, Rawan Al Alami, Mohamed Sami Abdelazim, Rami El Taher, and Mahmoud El Gohary (**Semerjian, L.** – Academic Supervisor), 27-28 Nov 2018, Dubai Knowledge Park, UAE.
- ❑ First-place award from the Department of Environmental Health Sciences for the Graduation Project “Radioactivity in bottled waters, associated doses and lifetime risk assessment in the United Arab Emirates”, Hadya AlRajabi, Nimra Naaz, and Rim Kasfah (**Semerjian, L.** –Research Project Supervisor), College of Health Sciences Students Research Forum, University of Sharjah, May 2018.
- ❑ First-Prize winner in the 17th Cycle of Intercollege Environmental Public Speaking Competition organized by Emirates Environmental Group in the Theme: People and the Planet "Finding a Sustainable Balance", Students: Hadya Al Rajaby, Rim Kasfah, Nimra Naaz, Mariyam Ibrahim (**Semerjian, L.** – Academic Supervisor), 27-28 Nov 2017, Dubai Knowledge Park, UAE.
- ❑ Finalist participant at the 6th United Arab Emirates Undergraduate Research Competition Forum, Abu Dhabi University, 30 April 2018, ““A Comparative Study of Microbial Contamination Between University and Household Bottled Water Dispensers”, Students: M. Ibrahim and B. Mohammed, (**Semerjian, L.** – Research Project Supervisor), Environmental Health Sciences, College of Health Sciences, University of Sharjah.
- ❑ Finalist participant at the 5th United Arab Emirates Undergraduate Research Competition Forum, Abu Dhabi University, 8 May 2017, “What is in Your Household Water Storage Tank? A Quality Assessment in Selected Areas of Sharjah”, Students: H. Obaid Al Jahdami

and H. Ahmad Zarouni (**Semerjian, L.** – Research Project Supervisor), Environmental Health Sciences, College of Health Sciences, University of Sharjah.

- Nominated participant at the 11th UOS Annual Scientific Research Forum, 16 May 2017, “What is in Your Household Water Storage Tank? A Quality Assessment in Selected Areas of Sharjah”, H. Obaid Al Jahdami and H. Ahmad Zarouni (**Semerjian, L.** – Research Project Supervisor), Environmental Health Sciences, College of Health Sciences, University of Sharjah.
- Sixth place achievement for the Graduation Project “What is in Your Household Water Storage Tank? A Quality Assessment in Selected Areas of Sharjah”, H. Obaid Al Jahdami and H. Ahmad Zarouni (**Semerjian, L.** – Graduation Research Project Supervisor), Environmental Health Sciences, College of Health Sciences, University of Sharjah, College of Health Sciences Students Research Forum, UOS, May 2017
- Best Paper Award for Final Year Project “Microbial Concrete” Haya Al Daawi, Janan Ewies, Elias Haber, Elie Mouannes, Sarah Kayali El-Alem (**Semerjian, L.** – Final Year Project Supervisor), *13th Faculty of Engineering and Architecture Student and Alumni Conference*, American University of Beirut, 2014.
- International Biodiversity Day at AUB (IBDAA) Award (Research Category) for the CIVE 351: Environmental Microbiology course project “Biofuel cells: Current applications and environmental sustainability” (**Semerjian, L.** – Research Project Supervisor), Civil and Environmental Engineering, Faculty of Engineering and Architecture, American University of Beirut, 2010.
- Emerald Literati Award of Excellence 2004 for “A health-based socio-economic assessment of drinking water quality: The case of Lebanon”, *Management of Environmental Quality: An International Journal*, vol. 14, No. 3, pp. 353-368, 2003 by El-Fadel M., Maroun R., **Semerjian L.**, and Harajli H.
- Dean’s Honor List for Academic Achievement, 1991, 1992, Faculty of Health Sciences, American University of Beirut

ACADEMIC COMMITTEES & WORKGROUPS (UNIVERSITY, COLLEGE, DEPARTMENTAL AT UOS (2015 – PRESENT))

1.	Sustainability Circle Leader - Water Science and Technology, Sustainability Office at University of Sharjah, Feb 2018-present
2.	Contributing member in preparing the Business Plan proposal for a Master of Science program in Environmental Health - Department of Environmental Health Sciences, CHS, UoS, 2015-16
3.	Contributing member and coordination in preparing the Initial Accreditation Document for the Master of Science program in Environmental Health - Department of Environmental Health Sciences, CHS, UoS, 2016- Present.
4.	Committee member in preparing the Business Plan proposal for a Master of Science program in Environmental Science and Engineering – College of Engineering, UoS, 2016.

5.	Committee member in preparing the Initial Accreditation Document for the Master of Science program in Environmental Science and Engineering – College of Engineering, UoS, March 2017- Present
6.	College of Health Sciences Research Forum Organizing Committee member, UoS, 2017
7.	Member (2016-present) and Rapporteur (2017 - 2018) in College of Health Sciences Council member, UoS.
8.	Member (2015-present) and Rapporteur (2016-2017) in EHS Department Council, Environmental Health Sciences, College of Health Sciences, UoS
9.	Member (2018-present) in “Student Assessment Committee”, College of Health Sciences, UoS
10.	Member in the College Recruitment Committee (2018-present), College of Health Sciences, UoS
11.	Member in Ad hoc committee for evaluating CHS student and Faculty Research for Sharjah Islamic Bank Award 2016-2017, March 2017
12.	Member in workgroup for assessing UOS status towards “Sharjah Green Award”, UOS, 2016
13.	Member in Ad hoc Committee for Offering New University Elective by College of Health Sciences, UOS, 2016
14.	Member in meeting workgroup with UOS re-licensure team, UOS, Sep 2016
15.	Member in “Student Affairs and Academic Advising Committee”, College of Health Sciences, UOS, 2015-2016
16.	Contributing member in establishing a new proposed Research Group on “Water and Environment”, University of Sharjah, United Arab Emirates, 2015-2016.

SCHOLARLY COMMUNITY SERVICES (2015-PRESENT)

Member of the “2019 Think Science Competition Scientific Review Committee” (Nov 2018)
Member of the “2018 Think Science Competition Scientific Review Committee” (Nov 2017)
Sustainability Circle Leader - Water science and technology, Sustainability Office at University of Sharjah, Feb 2018-present
Participation (oral presentation) in <i>Innovation in Research: Innovate for Health</i> , Ministry of Health and Prevention/University of Sharjah, 10 Feb, 2019
Participation for expert advice in “Marine Plastic and Microplastic Pollution”, Zayed International Foundation for the Environment and Dubai police Academy, 23 April, 2019
Participation for expert advice in “How to establish a culture of sustainability in planned communities”, SEE Institute, The Sustainable City, 28 Oct, 2018
Member of the International Scientific Committee (by invitation) “Third International Symposium on Materials, Electrochemistry, and Environment” (CIMEE 2019)”, Lebanese University, Lebanon, March 2019
Editorial Board Member for “ <i>Frontiers in Environmental Science, Microbiology and Bioengineering and Biotechnology</i> ” (Nov 2017-Present)
Health, Environment, and Community Awareness 2018 participation at University of Sharjah, 23 Oct 2018

Selected Judge in 6 th UAE Undergraduate Research Competition, 30 April 2018
Health Awareness 2017 participation at University of Sharjah, 3 Oct 2017
Member of the International Scientific Committee (by invitation) “Le Premier Colloque International: Les Matériaux, Electrochimie et Environnement (CIMEE)” Ecole Doctorale Sciences et Technologie et la Faculté de Santé Publique, Lebanese University, Lebanon, 22-24 Sep, 2016.
Reviewer (by invitation) for submissions to UAE Graduate Students Research Conference (27-28 April, 2016)
UOS Open Day Activities representative for CHS: 2016 - present
Delivered “Water Pollution and Conservation” awareness public lecture to school students, Raffles World Academy, Dubai, UAE, May 2016.
Mentored EHS students to participate in Intercollege Environmental Public Speaking Competitions organized by Emirates Environmental Group (2017 and 2018)
Encouraged and accompanied EHS students to attend conferences, workshops, panel discussions as well as secured summer internship as available, 2015-present
Reviewer for reputable scientific journals, 2010-present
PhD thesis committee member, “Microbial degradation of high molecular weight PAHs and weathered crude oil using marine SMFCs”, H. Hamdan, PhD Environmental and Water Resources Engineering, Faculty of Engineering & Architecture, American University of Beirut, Lebanon, expected 2018.
MS thesis committee member, “Effect of Algal Surface Area And Species Interactions in Toxicity Testing Bioassays”, L. Kamareddine, MS Environmental Technology, Faculty of Engineering & Architecture, American University of Beirut, Lebanon, Sep 2017.

ACADEMIC CONFERENCES, WORKSHOPS & SEMINARS ATTENDED

“Principles of Flipped Lecture: What, why, how, what if?” (by Prof. Emma Sutton and Dr. Paul Everden – University of East Anglia – UK), Medical Education Center, UoS, 4 & 11 Nov 2018.
Hands on training: Applications to support flipping the classroom. Medical Education Center, UoS, 11 Nov 2018
Assessment in Health Professions Education: Challenges and opportunities symposium, Medical Education Center, UoS, 3 Feb 2019
Role of Research in Health Professions Education, Medical Education Center, UoS, 17 March 2019
“Panel Discussion: Let’s Health Ocean Health”, organized by Emirates Environmental Group and United Nations Environment Programme (UNEP), 30 Jan 2019, Abu Dhabi, UAE
12 th Dubai International Food Safety Conference, Dubai, UAE (27-28 Oct, 2018)
Dubai International Nutrition Congress, UAE (24-26 Oct, 2018)
18 th Cycle of Intercollege Environmental Public Speaking Competition organized by Emirates Environmental Group, Nov 2018, Dubai Knowledge Park, UAE
Attendance of World Green Economy Summit, Dubai, UAE (24-25 Oct 2018)
Attendance of World Future Energy Summit, Water Expo, EcoWaste Expo and forums, Abu Dhabi, UAE (13-16 Jan 2019)
“Guidance Manual on Biological Waste Treatment”, Ministry of Climate Change and Environment, 7 Nov, 2018

“Graduate Executive Regulations for Faculty Members”, College of Graduate Studies, UoS, 11 Oct, 2018
“Strategic Instruction and Services for University Students with Learning Difficulties”, Institute of Leadership in Higher Education/ Beacon College, UoS, 19-20 Sep 2018
ExamSoft Training Workshop, College of Medicine UoS, 29 May 2018
Assessment: Principles, Marking, and Feedback (by Prof. Claire Milsom), Institute of Leadership in Higher Education, UoS, 22-24 April 2018
“Panel Discussion on the topic Innovation, Sustainable Development – New Manifesto for SDGs”, organized by Emirates Environmental Group, 18 Feb 2018, Modul University, Dubai, UAE
“Setting Expectations for Learning in a Course” (by Prof. Jeffrey Froyd), Institute of Leadership in Higher Education, UOS, 14 Jan 2018
“Designing Course-based Assessment Approaches” (by Prof. Jeffrey Froyd), Institute of Leadership in Higher Education, UOS, 16 Jan 2018
“Research-based Course Design – Putting it all Together” (by Prof. Jeffrey Froyd), Institute of Leadership in Higher Education, UOS, 18 Jan 2018
“Clean Air Forum” hosted by Environment Agency-Abu Dhabi and Department of Economic Development – Abu Dhabi, 10-11 Dec, 2017
17 th Cycle of Intercollege Environmental Public Speaking Competition organized by Emirates Environmental Group, 27-28 Nov 2017, Dubai Knowledge Park, UAE
The 5 th Emirati-German Congress in Medicine, UoS, 25-27 Nov 2017
World Green Economy Summit, Dubai International Convention and Exhibition Centre, Dubai, UAE, 24-25 Oct, 2017 (also attended the Water, Energy, Technology and Environment Exhibition, WETEX)
“Development of Innovation, Entrepreneurship, Strat up, Spin off, Incubation, and Acceleration”, Center for Continuing Education and Professional Development in collaboration with University of Malaga – Spain, and European Association EBN, UoS, 9-11 October, 2017
Training workshop on “iThenticate: Professional Plagiarism Prevention”, UoS, 9 Nov 2017
“Branding and Social Media Policy at UoS”, UoS, 4 Oct 2017
“UAE Towards a Cleaner Production”, Ministry of Climate Change and Environment, Emirates Global Aluminum, UAE (2 Oct, 2017)
Promoting Deep Learning Using Internet Technologies, Institute of Leadership in Higher Education, UOS, 1 May 2017.
Joint Workshop on Interdisciplinary Collaboration of Research Institute of Medical and Health Sciences and Research Institute of Science and Engineering, UOS, 13 April 2017.
Strategic Planning and Leadership in Higher Education, Institute of Leadership in Higher Education, UOS, 7-9 March 2017.
“The United Nations Sustainable Development Goals (SDGs) and Their Implementation with Reference to the Gulf” (by Drs. Olof Linden and Anders Wijkman), American University of Sharjah, 15 Feb 2017
“Research and Publishing in Higher Education” (by Prof. Jeffrey Froyd, University of Texas A&M), Institute of Leadership in Higher Education, UOS, 2 Feb 2017
Designing an Instructional Plan Incorporating Research-based Instructional Strategies (by Prof. Jeffrey Froyd, University of Texas A&M), Institute of Leadership in Higher Education, UOS, 1 Feb 2017

Attended Taskstream workshop by Deanship of Quality Assurance, Institutional Effectiveness and Accreditation Team, UOS, January 24, 2017
Blackboard Collaborate for interactive online teaching and learning, Academic Computing Section, Information Technology Center, UOS, UAE (27 Nov., 2016)
National Workshop on National Biosafety Framework, Ministry of Climate Change and Environment, Dubai, UAE (18-19 April, 2016)
University of Sharjah By-Laws for Faculty Promotion, UOS, UAE (11 April 2016)
17 th International Conservation Workshop for Arabia's Biodiversity, Environment and Protected Areas Authority, Sharjah, UAE (8-11 Feb, 2016)
Training workshop on Taskstream, UOS, UAE (Jan, 2016)
Training workshop on HR Self-Service: online CV & Credentials update, UOS,(Jan 2016)
15th Annual Student Workshop "Global Environmental Challenges – From Green Attitude to Green Action", EEG, Dubai, UAE (5 Nov. 2015)
10 th Dubai International Food Safety Conference, Dubai, UAE (27-28 Oct, 2015)
University of Sharjah By-Laws for New Faculty, UOS, UAE (24-25 Aug, 2015)
Development of skills in the use of e-services at UOS, UAE (1 Sep, 2015)
Effective Use of Technology Tools in Teaching Academic Computing Center, American University of Beirut, Lebanon (2010)
Moodle-Level I and II - Course Management Academic Computing Center, American University of Beirut, Lebanon (2006)
Seminar on Developing a Teaching Portfolio Center for Teaching and Learning, American University of Beirut, Lebanon (2005)
WebCT-Level I and II - Course Management Academic Computing Center, American University of Beirut, Lebanon (2005)
Turnitin - Plagiarism Prevention Academic Computing Center, American University of Beirut, Lebanon (2005)
Service Excellence Seminar, American University of Beirut, Lebanon (2001)

PROFESSIONAL LABORATORY TRAINING AND DEVELOPMENT

March 2017	The Relationship of the Field Sampler & the Lab (webinar), Test America Laboratory, Inc. On-line Educational Programs, United States of America
Nov 2016	Chemical analysis of sediments – Sediments are more than wet dirt (webinar), Test America Laboratory, Inc. On-line Educational Programs, United States of America
Nov 2016	Inside the black box of an environmental testing laboratory – basic analytical procedures (webinar), Test America Laboratory, Inc. On-line Educational Programs, United States of America
March 2013	Theories and hands-on training of Gas Chromatography Agilent Technologies, Environmental Engineering Research Center, American University of Beirut, Lebanon

March 2013	Theories and hands-on training of High Performance Liquid Chromatography, Agilent Technologies, Environmental Engineering Research Center, American University of Beirut, Lebanon
March 2011	Training workshop on “Wastewater Treatment and Reuse”, UNESCO-IHE Institute for Water Education, ENPI Horizon 2020 Capacity Building/Mediterranean Environment Programme, Beirut, Lebanon
Dec 2011	Training session on real-time polymerase chain reaction (RT-PCR), KAS Central Research Science Laboratory-AUB
Jan 2011	Training - Scanning Electron Microscopy, KAS Central Research Science Laboratory-AUB
May 2006	Theories and hands-on training of Thermo Atomic Absorption Spectrophotometer (Flame, graphite furnace, hydride generation), Thermo Electron Corporation, Cambridge, United Kingdom
Dec. 2004	Theories and hands-on training of NOVA 2200 Automated Surface Area and Pore Size Analyzer with NOVA AWIN2 software, Central Research Science Laboratory-AUB
Nov. 2000	Theories/ hands-on training: ICP, HPLC, GC, UV-VIS Core Environmental Laboratory-AUB/Environmental Institute-Slovakia
May-June 1996	Environmental Analytical Techniques and Instrumentation: Atomic Absorption Spectrometry, Gas Chromatography, Elemental Analysis United States Environmental Protection Agency, Ohio, USA
May –June 1996	Environmental Analytical Techniques and Instrumentation Atomic Absorption Spectrometry, Gas Chromatography, Oil Analysis, Elemental Analysis University of Cincinnati, Cincinnati, Ohio, USA
April 1996	Introduction to LC and HPLC DOS ChemStation, Ref 1116 Hewlett Packard, Americas Technical Center, Atlanta, Georgia, USA
April 1996	HP 6890/ALS/Asterix ChemStation Operation, Ref. 1117 Hewlett Packard, Americas Technical Center, Georgia, USA

SELECTED ACADEMIC/PROFESSIONAL ACTIVITIES

Invited speaker, “Building Sustainable Cities”, Greywater Reuse: A step towards sustainable water management, Harvard College in Asia Program, American University in Dubai, UAE (2014).

Moderator (by invitation), “Water Innovations and Young Entrepreneurs” Seminar, “From Lab to Market: Focusing on Water Technologies” session, World Bank/ISESCO-CMI, Beirut, Lebanon (2012).

Developing and delivering “Water Quality Assurance/Quality Control” training course for *Khatib and Alami Consolidated Engineering Company*, Beirut, Lebanon (2010).

PROFESSIONAL MEMBERSHIP

2006-present	Member, International Water Association (IWA)
2016-present	Member, Water Environment Federation (WEF)

JOURNALS/CONFERENCE REVIEWER

- Editorial Board review member: *Frontiers in Environmental Science, Microbiology and Bioengineering and Biotechnology*
- IWA Young Water Professionals Conferences
- Water Research
- Science of the Total Environment
- Environmental Science and Technology
- Journal of Cleaner Production
- Journal of Hazardous Materials
- Water Science and Technology, Water Science and Technology: Water Supply
- Environmental Pollution
- Chemical Engineering Journal
- International Journal of Chemical Reactor Engineering
- Science of the Total Environment
- Bio-resource Technology
- Water Resources Management
- Environmental Monitoring and Assessment
- Journal of Food Quality
- Environmental Technology & Innovation
- Environmental Engineering and Management Journal
- Desalination and Water Treatment
- Food Science and Technology
- Euro-Mediterranean Journal of Environmental Integration
- Reviewer for submissions to UAE Graduate Students Research Conference 2016

LANGUAGE PROFICIENCIES & COMPUTER SKILLS

English	Spoken, Written, and Read Fluently
Arabic	Spoken, Written, and Read Fluently
Armenian	Spoken, Written, and Read Fluently
French	Spoken and Read: working knowledge

Proficient in Microsoft Office and MacOS applications.

Knowledgeable in SPSS, GWsoftware/ GWchart, and GIS/ArcView