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CURRICULUM VITAE

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I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Education

<u>Institution</u>	<u>Dates Attended</u>	<u>Field of Study</u>	<u>Degree Obtained</u>	<u>Degree Date</u>
Department of Environmental and Occupational Health, National Cheng Kung University, Tainan, Taiwan	9/05 – 7/11	Industrial Hygiene	Ph.D.	2011
Department of Occupational Safety and Health, Chang-Jung Christian University, Tainan, Taiwan	9/00 – 7/03	Occupational Safety and Health	B.S.	2003

B. Professional and Academic Positions

<u>Position Title</u>	<u>Dates of Service</u>	<u>Location/Institution</u>
Assistant Professor	08/01/2022-present	Department of Biostatistics, Epidemiology and Environmental Health Sciences Jiann-Ping Hsu College Public Health Georgia Southern University, Statesboro, GA
Industrial Hygienist (CDC Title 42 Regular Fellow)	07/19/2021-07/30/2022	Research Branch, National Personal Protective Technology Laboratory, National Institute for Occupational Safety and Health (NIOSH), Pittsburgh, PA
Industrial Hygienist (CDC Title 42 Service Fellow)	02/24/2013-09/28/2020	Exposure Assessment Branch, Health Effects Laboratory Division, National Institute for Occupational Safety and Health (NIOSH), Morgantown, WV

Adjunct Assistant Professor	2012-2013	Department of Safety, Health and Environmental Engineering, Hung Kuang University, Taichung, Taiwan
Postdoctoral Research Fellow	2012-2013	Department of Occupational Safety and Health, China Medical University, Taichung, Taiwan
Lecturer	2006-2011	Education Research Centers for Occupational Safety and Health, Ministry of Education, Taiwan
Graduate Research Assistant	2006-2011	Department of Environmental and Occupational Health, National Cheng Kung University, Tainan, Taiwan

C. Honors, Awards, Recognitions, Outstanding Achievements

<u>Year</u>	<u>Title</u>
2020	CDC Incentive Award for COVID19 response
2018	International Scientific Committee, 11th International Occupational Hygiene Association (IOHA) International Scientific Conference, IOHA
2015	Alice Hamilton Award Honorable Mention, NIOSH
2011	Best Paper Elected (Second prize), Industrial Safety and Health Technology Best Paper Competition, Council of Labor Affairs, Taipei, Taiwan
2011	Excellent Research Award, Best Paper Competition in NCKU Medical College, Taiwan

II. TEACHING

A. Teaching Assignments

<u>Semester Year</u>	<u>Course Title/ Number</u>	<u>Semester Hours</u>	<u>Number of Students</u>	<u>Role</u>	<u>Percent Responsible</u>
Spring 2023	Food Safety and Health	3	5	Instructor	100%
Spring 2023	Environmental Health Practice	3	<5	Instructor	100%
Fall 2022	Environmental Toxicology	3	<5	Instructor	100%
Fall 2022	Environmental Health	3	6	Instructor	100%
Fall 2012	Environmental & Workplace monitoring	3	15 - 20	Assistant Professor	100% (16 Lectures & Lab)
Fall 2006-2011	Laboratory safety and health	2	25	Lecturer	20% (2 Lectures)
Spring 2006-2011	Laboratory safety and health	2	25	Lecturer	20% (2 Lectures)

B. Student Advising/Mentoring

<u>Name</u>	<u>Position</u>	<u>Role</u>	<u>Outcome</u>
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George H. Edge III	Internship	Research Mentor, Georgia Southern University	2023-the present
Dorothy Seybold	Internship	Research Mentor, Georgia Southern University	2023-the present
Keenan Monaghan	Preceptor ship	Laboratory senior/problem report (thesis) consultant, WVU	06/2016

III. SCHOLARSHIP

A. Publications or Creative Works

Published in peer-reviewed journals:

1. Hsu CY, **Soo JC**, Lin SL, Wu CD, Chi KH, Hsu WC, Tseng CC, Chen. Using cluster algorithms with a machine learning technique and PMF models to quantify local-specific origins of PM2.5 and associated metals in Taiwan. *Environmental Pollution*, 2023. doi: 10.1016/j.envpol.2022.120652
2. O'Brien, D.C., Lee, E., **Soo, J.-C.**, Friend, S., Carr, M.M. Surgical Team Exposure to Cautery Smoke and its Mitigation During Tonsillectomy. *Otolaryngology--head and neck surgery*. 2020. 163(3), 508-516
3. Carr, M.M., Patel, V.A., **Soo, J.-C.**, Friend, S., Lee, E. Effect of Cautery Settings on Particulate Concentrations in Surgical Smoke During Tonsillectomy. *Otolaryngology--head and neck surgery*. 2020. 162 (6):867-872
4. **Soo J.-C.**, LeBouf, R, Chisholm, W, Nelson, J, Roberts, J, Kashon, M, Lee E, Harper, M. Evaluation of Sorbent Sampling and Analysis Procedures for Acetone in Workplace Air: Variations of Concentration and Relative Humidity. *Annals of Work Exposures and Health*. 2020. 64 (1): 96-105.
5. Sisler, J.D., Shaffer J., **Soo, J.-C.**, LeBouf R, Harper M, Qian, Y., Lee, T. In vitro toxicological evaluation of surgical smoke generated from human tissue, *Journal of Occupational Medicine and Toxicology*. 2018, 13(12):1-12.
6. **Soo, J.-C.**, Lee, E.-G., LeBouf, R, Kashon, M. L., Chisholm W., Harper, M. Evaluation of a Portable Gas Chromatograph with Photoionization Detector under Variations of VOC Concentration, Temperature and Relative Humidity. *Journal of Occupational and Environmental Hygiene*. 2018, 15 (4): 351-360.
7. Lee T, **Soo, J.-C.**, LeBouf R, Burns B, Novak D, Bowers J, Harper M. Surgical smoke control with local exhaust ventilation: experimental study. *Journal of Occupational and Environmental Hygiene*. 2018, 15 (4): 341-350.
8. Woodall, G.M., Hoover, M.D., Williams, R., Benedict, K., Harper, M., **Soo, J.-C.**, Jarabek, M.A., Hulla, J., Caudill, M., Clements, A., Kaufman, A., Parker, A., Keating, M., Balshaw, D., Garrahan, K., Snyder, E., Burton, L., Thompson, R. Interpreting Mobile and Handheld Air Sensor Readings in Relation to Air Quality Standards and Health Effect Reference Values: Tackling the Challenges. *Atmosphere*. 2017, 8 (182): 1-25.
9. **Soo, J.-C.**, Lee T, Chisholm W, Farcas D, Schwegler-Berry D, Harper M. Treated and Untreated Rock Dusts: Silica Content and Physical Characterization. *Journal of Occupational and Environmental Hygiene*. 2016 13 (11): D201-D207.
10. **Soo J.-C.**, Monaghan K, Lee T, Kashon M, Harper M. Air Sampling Filtration Media: Collection Efficiency for Respirable Size-Selective Sampling. *Aerosol Science and Technology*. 2016, 50 (1): 76–87.
11. Farcas D, Lee T, Chisholm W, **Soo J.-C.**, Harper M. Replacement of filters for respirable quartz

- measurement in coal mine dust by Infrared Spectroscopy. *Journal of Occupational and Environmental Hygiene*. 2016, 13 (2): D16-22.
12. **Soo, J.-C.**, Lee, T., Kashon, M. L., Kusti, M., Harper, M. Quartz in coal dust deposited on internal surface of respirable size-selective samplers. *Journal of Occupational and Environmental Hygiene*. 2014, 11 (12): D215–D219
 13. **Soo, J.-C.**, Lee, E.-G., Lee, L.A., Kashon, M. L., Harper, M. Evaluation of pump pulsation in respirable size-selective sampling: Part III. Investigation of European standard methods. *Annals of Occupational Hygiene*. 2014, 58 (8): 1006–1017.
 14. Chen, C.-H., **Soo, J.-C.**, Young, L.-H., Wu, T.-N., Yoon, C., Lai, C.-Y., and Tsai, P.-J. Effect of the Quartz Particle size on XRD Quantifications and its implication to field collected samples. *Aerosol and Air Quality Research*. 2014, 14: 1573–1583.
 15. **Soo, J.-C.**, Tsai, P.-J., Chen, C.-H., Chen, M.-R., Hsu, H.-I., Wu, T.-N. Influence of Compressive Strength and Applied Force in Concrete on Particles Exposure Concentrations during Cutting Processes. *Science of the Total Environment*, 2011, 409: 3124-3128.
 16. **Soo, J.-C.**, Li, S.-R., Chen, J.-R., Chang C.-P., Ho, Y.-F., Wu, T.-N., Tsai, P.-J. Acid Gas, Acid Aerosol and Chlorine Emissions from Trichlorosilane Burning Processes. *Aerosol and Air Quality Research*. 2011, 11: 323–330.
 17. **Soo, J.-C.**, Tsai, P.-J., Lee, S.-C., Lu, S.-Y., Chang C.-P., Liu, Y.-W., Shih, T.-S., Establishing Aerosol Exposure Predictive Models Based on Vibration Measurements. *Journal of Hazardous Materials*, 2010, 178: 306–311.
 18. Chen, C.-H., Tsai, P.-J., Lai, C.-Y., Peng, Y.-L., **Soo, J.-C.**, Chen, C.-Y., Effects of Uniformities of Deposition of Respirable Particles on Filters on Determining Their Quartz Contents by Using the Direct on-Filter X-ray Diffraction (DOF XRD) Method. *Journal of Hazardous Materials*, 2010, 176: 389–394.
 19. **Soo, J.-C.**, Tsai, P.-J., Chen, C.-H., Hsu, D.-J., Dai, Y.-T., Chang C.-P., Establishing Aerosol Exposure Predictive Models Based on Noise Measurements– Using the Concrete Drilling as an Example. *Journal of Environmental Monitoring*, 2009, 11: 1523–1528.
 20. Shih, T.-S., Lu, P.-Y., Chen, C.-H., **Soo, J.-C.**, Tsai, C.-L., Tsai, P.-J., Exposure Profiles and Source Identifications for Workers Exposed to Crystalline Silica during a Municipal Waste Incinerator Relining Period. *Journal of Hazardous Materials*, 2008; 154: 469–475.

Conference abstracts

1. **Soo, J.-C.** Perez RL, Adhikari A, and Chen YC. Development of a test method to determine inhalation exposure of microplastic particles when reusable disposable masks in place. Inhaled particle and NanOEH 2023. Manchester, UK, May 15-18, 2023
2. **Soo J.-C.** and Edward M. Fisher. Proposing a New Method of Determining Penetration of Virus through Gloves in Stretched and Flexed Conditions: A Preliminary Study. American Industrial Hygiene Conference & Exposition (*AIHce*), Nashville, TN, May 23-25, 2022
3. **Soo J.-C.**, Nelson J, Roberts J, Chisholm W, Barbero A, Kao E. Personal Passive Sampling Method for Nitrous Oxide in Air. American Industrial Hygiene Conference & Exposition (*AIHce*), Virtual Conference, June 1-3, 2020
4. Purnell P, Lee E, **Soo J.-C.**, Friend S, Carr MM. Effect of Cautery Settings on Particulate Concentrations in Surgical Smoke During Tonsillectomy. abstract, American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting 2019, New Orleans, LA, September 15-18, 2019.
5. **Soo J.-C.**, Nelson J, LeBouf RF, Roberts J, Elliott M, Jackson M, Kashon M, Kao E, Virji MA, Chisholm W [2019]. A Personal Nitrous Oxide Sampling Technique in Workplaces: Method Development and Evaluation. NIOSH Intramural Science Meeting, Morgantown, WV, July 30 – August 12 2019
6. Rojanasakul L, Derk R, **Soo J.-C.**, Demokritou P, Singh D, Kornberg T, Stueckle T, Rojanasakul Y, Coyle J. Development of physiologically relevant in vitro models for assessment of

- nanoparticle-induced physicochemical property-dependent cytotoxicity of human lung cells. abstract, 15th International Congress of Toxicology, Honolulu, Hawaii, July 15-18, 2019
7. **Soo J.-C.**, Sisler J, Shaffer J, Lebouf R, Harper M, Qian Y, Lee T. Toxicological Evaluation of Surgical Smoke from Human Tissue: An In vitro Study. abstract, American Industrial Hygiene Conference & Exposition (AIHce), Minneapolis, MN, May 20-22, 2019
 8. **Soo J.-C.** Novel experimental approaches to study emission and exposure of welding fume. abstract, American Industrial Hygiene Conference & Exposition (AIHce), Minneapolis, MN, May 20-22, 2019
 9. Wang J., Bezerra M., **Soo J.-C.**, He S., Bartels J. Link the Oxidation Level between Gaseous and Particulates compounds: A Study on Nitrogen-enriched Stainless Steel Welding and Cutting. 10th International Aerosol Conference, St. Louis, Missouri, September 2-7, 2018.
 10. **Soo J.-C.**, LeBouf R.F., Lee E., Kashon M, Harper M. Analytical Variability of Acetone Concentration between Sorbent Tubes, between Sampling and Analytical Methods, and between Extraction Conditions. *The American Industrial Hygiene Conference and Expo (AIHce)*, Philadelphia, PA, May 21-23, 2018.
 11. Wang, J., **Soo J.-C.**, Bezerra, W. Frontier Research on Welding Fume Emission and Engineering Control (**Oral**). *The American Industrial Hygiene Conference and Expo (AIHce)*, Philadelphia, PA, May 21-23, 2018.
 12. **Soo J.-C.**, Lee E., LeBouf R.F., Harper M. Evaluation of Portable Gas Chromatography - Photoionization Detector for VOCs in Air (**Oral**). *The American Industrial Hygiene Conference and Expo (AIHce)*, Seattle, WA, June 4-7, 2017
 13. **Soo, J.-C.**, Lee T, Chisholm W, Farcas D, Schwegler-Berry D, Harper M. Treated and Untreated Rock Dusts: Silica Content and Physical Characterization (**Oral**). *The American Industrial Hygiene Conference and Expo (AIHce)*, Baltimore, MD, May 21-26, 2016
 14. **Soo, J.-C.**, Lee T, Kashon M, Harper M. Collection Efficiency of Membrane Filters for Respirable Size-Selective Sampling. *The American Industrial Hygiene Conference and Expo (AIHce)*, Baltimore, MD, May 21-26, 2016
 15. Lee T, **Soo, J.-C.**, LeBouf R, Burns B, Novak D, Bowers J, Harper M. Experimental study of surgical smoke and its control. *The American Industrial Hygiene Conference and Expo (AIHce)*, Baltimore, MD, May 21-26, 2016
 16. Lee T, Lee L, Hummer J, Cauda E, **Soo, J.-C.**, Harper M. A Cyclone for End-of-Shift Silica Measurement. *The American Industrial Hygiene Conference and Expo (AIHce)*, Baltimore, MD, May 21-26, 2016.
 17. **Soo, J.-C.**, Lee E, Lee L, Kashon ML, Harper M. Evaluation of Pump Pulsation according to the European Standard Methods (**Invited presentation**). *2015 NIOSH Intramural Science Meeting, Cincinnati, OH, August 4-6, 2015*
 18. **Soo, J.-C.**, Lee, T., Kashon, M. L., Harper, M. Internal Cassette Deposits in Respirable Samplers (**Oral**). *The American Industrial Hygiene Conference and Expo 2015 (AIHce)*, Salt Lake City, Ut, May 30-June 4, 2015.
 19. Farcas D., Lee, T., Chisholm, W. P., **Soo, J.-C.**, Harper, M. Possible replacements for DM450 filters in FTIR analysis of silica in coal mine dust. *The American Industrial Hygiene Conference and Expo 2015 (AIHce)*, Salt Lake City, Ut, USA, May 30-June 4, 2015.
 20. **Soo, J.-C.**, Lee, E.-G., Lee, L.A., Kashon, M. L., Harper, M. Investigation of Relationship of Pump Pulsation Between NIOSH and EN 1232 Method (**Oral**). *The American Industrial Hygiene Conference and Expo 2014 (AIHce)*, San Antonio, TX, USA, May 31-June 5, 2014.
 21. **Soo, J.-C.**, Tsai, P.-J., Li, S.-R., Chen, J.-R., Lee, W.-J., Chang C.-P., Ho, Y.-F.. Characteristics of Acid Gas and Acid Aerosol Emissions from Trichlorosilane Burning Processes under Various Humidity Conditions. *The American Industrial Hygiene Conference and Expo 2011 (AIHce)*, Portland, US, May 14-19, 2011.
 22. **Soo, J.-C.**, Tsai, P.-J., Identification of Factors Influencing the Dust Generation and Their Quartz Content under Various Concrete Cutting Conditions (**Oral**). *2010 Joint Conference of*

International Society of Exposure Science and International Society for Environmental Epidemiology, Seoul, Korea, Aug. 28-Sep. 1st, 2010.

23. Chen, M.-R., Tsai, P.-J., **Soo, J.-C.**, Predicting Long-term Average Oil Mist Exposures for Workers in a Fastener Manufacturing Industry Based on its Manufacturing Rates. *The American Industrial Hygiene Conference and Expo 2010 (AIHce), Denver, US, May 22-May 27, 2010.*
24. Tsai, P.-J., **Soo, J.-C.**, Assessing the Number, and Surface Area Concentrations of Candle Flames under Various Air Exchange Rate Conditions during the Burning of Paraffin Wax Candles. *4th International Conference on Nanotechnology-Occupational and Environmental Health, Helsinki, Finland, Aug. 26-29, 2009.*
25. **Soo, J.-C.**, Tsai, P.-J., Chang, J.-P., Hsu, D.-J., Lu, S.-Y., Lee, S.-C., Investigating the Relationship between Generated Noise and Vibration during Concrete Drilling Processes (**Oral**). *The American Industrial Hygiene Conference and Expo 2008 (AIHce), Minneapolis, MN, May 30-June 5, 2008.*
26. **Soo, J.-C.**, Tsai, P.-J., Chang, J.-P., Hsu, D.-J., Lu, S.-Y., Lee, S.-C., Developing Surrogate Method for Predicting Dust Exposures Based on Vibration Measurements during Drilling Processes (**Oral**). *7th International Occupational Hygiene Association (IOHA) International Scientific Conference, Taipei, Taiwan, Feb. 18-22, 2008.*
27. **Soo, J.-C.**, Tsai, P.-J., Developing a Surrogate Method for Predicting Dust Exposures Based on Acoustic Measurements during Drilling Processes (**Oral**). *The 5th Asian Aerosol Conference, Kaohsiung, Taiwan, Aug. 26-29, 2007.*
28. **Soo, J.-C.**, Tsai, P.-J. Characterize Dust Emissions by Using the Noise Measurement as a Surrogate Method (**Oral**). *2006 Conference of Industrial Hygiene and Occupational Medicine. Taipei, Taiwan, April 24-25, 2006.*
29. **Soo, J.-C.**, Tsai, P.-J., Tong, D.-T., Cheng, S.-F., Tsai, J.-L., Characteristics and Control of Free Silica Emissions from Maintenance Works in Construction Industry (**Oral**). *2005 Conference of Industrial Hygiene and Occupational Medicine. Tainan, Taiwan, April 27-30, 2005.*

Book chapter, non-SCI paper and research report

1. **Soo, J.-C.** Evaluation of Pump Pulsation according to the European Standard Methods: Report to Health Effect Laboratory Division. NIOSH. 2014.
2. Tsai, P.-J., **Soo, J.-C.**, Wu, T.-N., Particulate Sampling. In” Occupational Hygiene-Hazard Evaluation”. Tsai, P.-J., Eds. Academic Press: China Medical University, Taiwan, p.p. 136–172, 2014 (**In Chinese**).
3. **Soo, J.-C.**, Li, S.-R., Chen, J.-R., Chang C.-P., Ho, Y.-F., Lee, W.-J., Tsai, P.-J. A Study on the Emissions of Acid Gas, Acid Aerosols and Chlorine from the Burning of Trichlorosilane. *Journal of Occupational Safety and Health*. 2012, 20: 85-93 (2012).
4. **Soo, J.-C.**, Tsai, P.-J., Identification of Factors Influencing the Dust Generation and Their Quartz Content under Various Concrete Cutting Conditions. *Epidemiology* 2011 January Supplement, 22 (1): S184.

B. Areas of Research Interest/Current Projects

1. Method development and evaluation of glove viral penetration (current project)
2. Environmental health science. Industrial hygiene. Indoor air quality. Microbiology.
3. Health-related aerosol measurement
4. Sampling and analytical method development and evaluation
5. Inhalation toxicology. Challenged aerosol generation
6. Direct-reading instrument and sensor technology. Micro-Gas Chromatography technique
7. Diffusion air sampling. Nitrous Oxide

C. Completed projects

2016-2018	Evaluation of a portable direct reading instrument for VOCs in air. DHHS/CDC/NIOSH, USA. (Principal Investigator).
2015-2018	Evaluation of surgical smoke exposures in perioperative procedures. DHHS/CDC/NIOSH, USA. (Co-investigator)
2015-2017	Cyclone for end-of-shift silica measurement. DHHS/CDC/NIOSH, USA. (Co-investigator)
2015-2016	Treated rock dust: silica content, physical characterization, and toxicity. DHHS/CDC/NIOSH, USA. (Co-Investigator)
2014-2015	Investigation of sampling efficiency of sampling filters media. DHHS/CDC/NIOSH, USA. (Principal Investigator)
2013-2014	Quartz in coal dust deposited on internal surface of respirable size-selective samplers. DHHS/CDC/NIOSH, USA. (Principal Investigator)
2013-2014	Evaluation of pump pulsation in respirable size-selective sampling: Part III. Investigation of European standard methods (Project 927ZKCX). CDC/NIOSH, USA. (Principal Investigator)
2009-2010	Acid Gas, acid aerosol and chlorine emissions from trichlorosilane burning processes. Institute of Occupational Safety and Health, Council of Labor Affairs, Taiwan.
2008-2011	From environmental conditions and constituents of raw materials aspects to assess the emissions of hazardous materials during the burning of fragranced candles and their control strategies, National Science Council, Taiwan.
2005-2006	Characteristics of dust emission using the noise measurement as a surrogate method, Institute of Occupational Safety and Health, Council of Labor Affairs, Taiwan.
2004-2005	Characteristics and control of free silica emissions form maintenance works in construction industry. Institute of Occupational Safety and Health, Council of Labor Affairs, Taiwan.

D. Grants Received

<u>Source, Title</u>	<u>Amount Period of Funding</u>
CDC/NIOSH National Occupational Research Agenda (NORA): Grant Name: Nitrous Oxide Exposure: From Improved Sampling Method to Exposure Assessment. Project Officer/ Principal Investigator	\$176,000 10/1/17-9/30/20
CDC/NIOSH Grant support from NIOSH Direct-Reading and Sensor Technology Center Grant Name: Evaluation of a portable direct reading instrument for VOCs in air. Principal Investigator	\$5,000 10/1/15-9/30/17
CDC/NIOSH Grant support from NIOSH Office of Mine Safety and Health Research's (OMSHR) Grant Name: Treated rock dust: silica content, physical characterization, and toxicity. Co-Investigator	\$30,000 1/21/15-9/30/16

E. Invited Presentations and Seminars

<u>Date</u>	<u>Title</u>	<u>Organization</u>
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3/3-4/2020	Baseball History, Industrial Hygiene History and You: from air sampling to sensor application	Department of Environmental Health Sciences, Fielding School of Public Health, University of California, Los Angeles (UCLA), Los Angeles, CA
6/17-18/2019	Aerosol and Vapor Sampling: From now to the future	Department of Occupational Safety and Health, Murray State University, Murray, KY
3/8-9/2017	Aerosol and Vapor Sampling: What we know and don't know	Department of Occupational Safety and Health, California State University, Northridge, CA
10/25-26/2016	Aerosol and Vapor Sampling: What we know and don't know	Department of Global Environmental Health Science, School of Public Health & Tropical Medicine, Tulane University, New Orleans, LA

IV. SERVICE

A. Membership in Academic and Professional Organizations

Year	Professional Organizations
2008-present	Member of the American Industrial Hygiene Association

B. Other Professional Service or Professionally Relevant Community Involvement

Year	Title
2016-2020	Vice-Chair, Secretary, Secretary-Elect, the American Industrial Hygiene Association: Real Time Detection Systems Committee
2018	Served on International Scientific Committee (ISC), 11th International Occupational Hygiene Association (IOHA) International Scientific Conference, Washington D.C.
2017	Served on committee to the Air Sensor Health Group, U.S. Environmental Protection Agency, Research Triangle Park, NC.
2017-present	Volunteered to serve on the editorial board of AIMS Environmental Science

V. Statement of Academic Progress

Jhy-Charm Soo is an Assistant professor at Department of Biostatistics, Epidemiology and Environmental Health Sciences, Jiann-Ping Hsu College Public Health, Georgia Southern University. Prior to joining the JPHCOPH at Georgia Southern University, Dr. Soo held a research industrial hygienist position in the National Institute for Occupational Safety and Health (NIOSH) for the Centers for Disease Control and Prevention (CDC). He pursued his PhD in Environmental and Occupational Health at National Cheng Kung University, Taiwan in 2011 and received his postdoctoral training from China Medical University, Taiwan in 2012. Prior to work at NIOSH, Soo was an adjunct assistant professor in the Department of Safety, Health and Environmental Engineering at Hung Kuang University, Taiwan. Soo was a principal investigator managing a National Occupational Research Agenda (NORA) project funded by NIOSH. He has obtained broad laboratory research and field survey experience in improving sampling and analytical methods for assessment of workplace hazards, especially crystalline silica and VOCs. Soo's current work focuses on direct-reading instrument and sensor technology that are of key importance for more effectively monitoring aerosol and VOC exposures, which will therefore protect workers by making exposure

measurements in real time. In 2015, his pump pulsation study, published in a series of papers, received an Honorable Mention for the prestigious NIOSH Alice Hamilton Award for excellence in Science. He is actively involved in volunteer work with his peers and has served as a Vice-Chair of the Real Time Detection Systems Committee of the American Industrial Hygiene Association. Soo was appointed to the international scientific committee of 11th International Occupational Hygiene Association (IOHA) International Scientific Conference, Washington D.C.

I am particularly interested in applying novel sampling and analytical methods to exposure scenarios in order to identify occupational and environmental risk factors of disease. My job responsibilities involved developing research projects for improving the impact and quality of occupational safety and health science, and responding to public health crises. These responsibilities have given me experience in knowledge of the laws, regulations, principles, methods and techniques related to occupational and environmental health, as well as the ability to interact collaboratively with others. My primary career objective is to obtain a tenured Professor position at a research oriented university like Georgia Southern University. Achievement of this objective will allow me to use the knowledge and experience that I have acquired to communicate and transmit to the U.S. people my passion for the occupational safety and health field. My goal through my work and academic career has been to gain the knowledge, skills, and abilities (KSAs) necessary to become a proficient researcher and enthusiastic team player.