## Curriculum Vitae

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# Education

2001 – 2002 Postdoctoral Scientist, Connecticut Agricultural Experiment Station, New Haven, CT, Funded by US Environmental Protection Agency.

2000 Ph. D. Environmental Science and Engineering

 University of Texas at El Paso (UTEP), El Paso, Texas

Dissertation: Environmental Applications of Chiral HPLC and Development of Chiral Stationary Phases

1995 M.S. Chemistry, UTEP, El Paso, Texas

Thesis: Synthesis and Applications of Trans-2-(1-methyl-1-phenylethyl)cyclohexyl Derivatives

1985 B.S. Chemistry, National Taiwan Normal University, Taipei, Taiwan

Thesis: The Catalytic Effect of Crown Ether in the Reduction of Nitrobezene

###### Experience

2022-

2009- 2022 Associate Professor, Department of Chemistry, UTEP, El Paso, TX

2003 - 2009 Assistant Professor, Department of Chemistry, UTEP, El Paso, TX

1998 - 2000 Assistant Instructor, Department of Chemistry, UTEP

 Taught Chem 1306; Chem 2324

1998 - 2000 Laboratory Coordinator, UTEP

Directed lab waste disposal and safety training

1994 - 1998 Research Assistant, Department of Chemistry, UTEP

 Faculty Mentor: Dr. James Salvador

 Project –

Environmental Applications of Chiral HPLC and Development of Chiral Stationary Phases

Synthesis and Applications of Trans-2-(1-methyl-1-phenylethyl)cyclohexyl Derivatives

1985-1993 Chemistry Teacher, Municipal Chien-Chen Senior High School, Kaohsiung, Taiwan

**AFFILIATION**

* American Chemical Society
* Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
* Society for Basic Urologic Research (SBUR)
* Society of Environmental Toxicology and Chemistry (SETAC)
* Water Environment Federation (WEF)

**Awards**

* UTEP BUILDing SCHOLARS Mentorship Award, 2021
* Summer sabbatical program, BUILDing SCHOLARS, UTEP, Summer 2018
* UTEP Interdisciplinary (IDR) Enhancement Program Award – Round VII- IDR Fellow to the Offices of the Provost and Research and Sponsored Projects, 2016
* NSF, Faculty and Student Teams (FaST) Program, 2009 and 2010.
* Distinguished Achievement Award for Teaching, College of Science, UTEP, May 2009

*Travel Awards:*

* NSF REU Chemistry Leadership Group (for Amanda Parra, undergraduate), Mentor Support Travel Award, Spring 2011 National American Chemical Society Meeting, Anaheim, CA.
* COACh Travel Award, 239 ACS National Meetings, San Francisco, CA, March, 2010.
* Society of Toxicology (SOT) Travel Award for Advisors/Undergraduate Education Program, March 2008, SOT Annual Meeting, Seattle, WA.
* LSAMP (Louis Stokes Alliances for Minority Participation Program) Scholar Travel Award, 231st ACS National Meetings, March 2006, Atlanta, GA.
* COACh Travel Award, 228th ACS National Meetings, Philadelphia, PA, August, 2004.
* Advance Travel Award, 2005 Faculty Horizons Workshop, Baltimore, MD, July, 2005.
* COACh Travel Award, 229th ACS National Meetings, San Diego, CA, March 2005.
* North American Minority Students and Mentors in Environmental Toxicology and Chemistry, Society of Environmental Toxicology and Chemistry (SETAC) Program, November, 2003.

*Awards prior to rank:*

* Outstanding Graduate Research Award, **2000**, Environmental Science and Engineering Program, UTEP.
* Outstanding Assistant Instructor, Department of Chemistry, **1999**, UTEP.

**Grant Awards**

*Active* *Grants*

* NIH, 1SC1CA245675

Project: Urinary biomarkers for prostate cancer diagnosis and risk assessment

Awarded: $ 1,505,920

Period: 09/19/2019 – 04/30/2024

Role: PI

* NIH, 2R25GM069621-14

Project: RISE Option IV: Research Scholars Program

Awarded: $4,255,303

Period: 06/01/2017 – 05/31/2022

Role: co-PI. PI: Dr. Renato Aguilera, Biological Sciences

* NIH, 2U54MD007592-26

Project: Border Biomedical Research Center- Research Project 2

Awarded: $19,198,789)/$2,828,539 (Research Project 2).

Period: 04/01/2019 – 02/29/2024

Role: co-PI. PI: Dr. Robert Kirken, Biological Sciences

* NIH/NIGMS.

Project: G-RISE at the University of Texas at El Paso

Budget Requested: $542,000 annual; Total Anticipated Project Amount: $ 2,598,666

Period: 05/01/2022 – 04/30/2027

Role: co-PI; PI: Dr. Renato Aguilera, Biological Sciences

* NIH/NIGMS.

Project: U-RISE at the University of Texas at El Paso

Budget Requested: $810,000 annual; Total Anticipated Project Amount: $ 3,840,640

Period: 04/01/2022 – 03/31/2027

Role: co-PI; PI: Dr. Renato Aguilera, Biological Sciences

*Completed Grants*

* NIH/ BBRC Pilot Grant

Project: Utilizing Machine Learning for Prostate Cancer Diagnosis in Hispanic Patients

Budget Requested: $ 60,400

Period: 02/01/2021 – 01/31/2022

Role: co-PI; PI: Dr. Michael Pokojovy, Mathematical Sciences.

* Edward N. and Margaret G. Marsh Foundation

Project: A study of the Environmental and Genetic Factors Affecting Antibiotic Resistance of Bacteria from the Rio Grande River in the El Paso, TX-Cd. Juarez, Mexico

Awarded: $ 110,537

Period: 01/01/2017 – 12/31/2017

Role: co-PI. PI: Dr. Delfina Dominguez (Clinical Laboratory Sciences - Interdisciplinary Health Sciences – Bioinformatics)

* NIH, 2R25GM069621-09

Project: RISE Option III: Research Scholars Program

Awarded: $4,312,042

Period: 05/25/2012 – 03/31/2016

Role: co-PI. PI: Dr. Renato Aguilera, Biological Sciences

* NSF, DRL-1322600

Project: Transforming Students’ Partnership with Scientists through Cogenerative Dialogues

Awarded: $1,499,756.00

Period: 10/01/2013 – 9/30/2017

Role: Co-Principal Investigator (co-PI, 2013 - 2014). PI- Pei-Ling Hsu, Teacher Education

* NIH, BBRC

Project: Bio-Analytical assessments of Glucocorticoids in wastewater and freshwater supplies on Human Health

Awarded: $12,500

Period: 07/01/2011 - 06/30/2012

Role: PI

* NIH, BBRC

Project: Health Impact of Endocrine Disruptors in the Border area

Awarded: $12,500

Period: 07/01/2010 - 06/30/2011

Role: co-PI. PI: Dr. Elizabeth Walsh, Biological Sciences

* NIH, MBRC SCORE

Project: Health Impact of Endocrine Disruptors in the Border area

Awarded $ 577,370

Period: 09/01/2007 to 05/31/2011

Role: PI

* Center for Border Health Research

Project: Organic Wastewater Compounds in the Paso del Norte Region

Awarded $ 75, 000

Period: 01/01/06 to 12/30/08

Role: PI

* Southwest Center for Environmental Research and Policy (SCERP)

Project: Field Evaluation of Sources of Air-Borne PAHs in the El Paso Area

Awarded $ 45,000

Period: 6/1/06 – 5/31/08

Role: PI

* Southwest Center for Environmental Research and Policy (SCERP), FY 2004 Applied Border Environmental Research Program

Project: A Baseline Study on the Occurrence of Organic Wastewater Compounds in the Paso delNorte

Awarded $ 74,262

Period: 06/01/04 to 12/15/05

Role: PI

* Department of Energy, HBCU-MI

Project: Study of the Phytoremediation Potential of Desert Plants for the Cleanup of Persistent Organic Pollutants in Soil

Awarded $ 93,112

Period: 09/30/03 to 12/31/06

Role: PI

* Keck/PKAL Facilitating Interdisciplinary Learning project

Awarded: no fiscal award was given. UTEP was selected to participate in the development of a national interdisciplinary STEM resource for undergraduate education

Period: 08/01/08 – 12/30/2010

Role: Principal Investigator

* Department of Health and Human Services: Advanced Research Cooperation for Environmental Health (ARCH)

Project: UTEP-UNM HSC ARCH Program on Border Asthma

Awarded $ 5,117,244

Period: 07/01/05 to 6/30/10

Role: Co-PI

* Department of the Army, US Army Research, Development and Engineering Command

Project: Development of Materials World Modules (MWM) for Undergraduate Science Courses. Contract No. W911NF-04-1-0052

Awarded $ 1,250,000

Period: 03/01/04 – 02/28/09

Role: Investigator

*Internal Grants Awarded*

* Interdisciplinary Research (IDR) Enhancement Program Award, UTEP

Project: Study of Removal of Contaminants of Emerging Concerns in Municipal Wastewater

Awarded $ 25,000

Period: 01/01/13 to 12/31/13

Role: PI

* University Research Institute Grant (URI), UTEP

Project: Development of a Novel Non-Invasive Diagnostic Method for Early Detection of Prostate and Breast Cancer

Awarded $ 5,000

Period: 09/01/11 to 08/31/12

Role: PI

* Undergraduate Teaching Research Integration (U-TRI) Course Development , UTEP

Project: Development of a Novel Non-Invasive Diagnostic Method for Early Detection of Prostate and Breast Cancer – an inquiry based learning for Analytical Chemistry Laboratory

Awarded $ 5,000

Period: 09/01/12 to 12/31/12

Role: PI

* National Science Foundation, Advance Initiative, UTEP

Project: DDT and its Metabolites in Breast Milk: Preliminary Study in El Paso

Awarded $ 5,139; Student support

Period: 1/15/07 to 5/31/07

Role: Student Mentor & PI

* National Science Foundation, Advance Initiative, UTEP,

Project: Study of Wastewater Organic Contaminants in El Paso

Awarded $ 5,139; Student support

Period: 1/15/06 to 5/31/06

Role: Student Mentor & PI

* Center for Civil Engagement, UTEP

Project: Developing an Effective Recycling Program on Campus through Students Engagement

Awarded $ 4,600

Period: 09/01/05 to 12/31/05

Role: PI

* National Science Foundation, Advance Initiative, UTEP,

Project: Method Development for Analysis of Persistent Organic Pollutants in Food Using Stir Bar Sorptive Extraction and GC/MS

Awarded $ 5,139; Student support

Period: 6/1/05 to 8/31/05

Role: Student Mentor & PI

* National Science Foundation, Advance Initiative, UTEP

Project: Occurrence and Concentration of Persistent Organic Pollutants (POPs) in the Paso del Norte Region

Awarded $ 5,139; Student support

Period: 6/1/04 to 8/31/04

Role: Student Mentor & PI

* University Research Institute, UTEP

Project: Occurrence and Concentration of Persistent Organic Pollutants (POPs) in the Paso del Norte Region

Awarded $ 3,000

Period: 1/1/04 to 8/31/04

Role: PI

* Start-Up Funding, UTEP, Awarded $159,000, 1/1/03 to 8/31/05.

**Patents**

* CANCER DIAGNOSTIC TOOL BASED ON VOLATILE ORGANIC COMPOUNDS

Issue Date: 02 - 02 - 2021

Application Date: 10 - 25 - 2018

Patent No. 10,908,162

* ANALYTICAL TECHNIQUE FOR MEASURING BOUND GLYCERIDES IN A BIODIESEL COMPOSITION

Issue Date: 07 - 02 - 2013

Application Date: 04 - 06 - 2010

Patent No. 8,476,075

**Publications**

1. Yuqing Ye, Elizabeth Noriega Landa, Jesus M. Cantu, Jose A. Hernandez-Viezcas, Aruna Narayanan Nair, **Wen-Yee Lee**, Sreeprasad T. Sreenivasan, Jorge L. Gardea-Torresdey, A double-edged effect of manganese-doped graphene quantum dots on salt-stressed Capsicum annuum L., Science of The Total Environment, 2022, 844, 157160, ISSN 0048-9697, <https://doi.org/10.1016/j.scitotenv.2022.157160>.
2. Huang, H.; Grajeda, B.; Ellis, C.C.; Estevao, I.L.; **Lee, W.-Y.** A comparative proteomics study of Arabidopsis thaliana responding to the coexistence of BPA and TiO2-NPs at environmentally relevant concentrations. Ecotoxicology and Environmental Safety, 241, 2022, 113800, ISSN 0147-6513, https://doi.org/10.1016/j.ecoenv.2022.113800.
3. Guest, C., Harris, R., Sfanos, K. S., Trock, B., **Lee, W.-Y.,** Gao, Q., Simons, J., Mershin, A., Feasibility of Integrating Canine Olfaction with Chemical and Microbial Profiling of Urine to Detect Lethal Prostate Cancer. PLOS ONE 16(2): e0245530. <https://doi.org/10.1371/journal.pone.0245530>
4. Gómez-Torres A, Aguilar-Calderón JR, Encerrado-Manriquez AM, Pink M, Metta-Magaña AJ, **Lee WY**, Fortier S. Titanium-Mediated Catalytic Hydrogenation of Monocyclic and Polycyclic Arenes. Chemistry. 2020 Mar 2;26(13):2803-2807. doi: 10.1002/chem.201905466. Epub 2020 Feb 18. PMID: 31846166.
5. Sengupta D, Sandoval-Pauker C, Schueller E, Encerrado-Manriquez AM, Metta-Magaña A, **Lee WY**, Seshadri R, Pinter B, Fortier S. Isolation of a Bimetallic Cobalt(III) Nitride and Examination of Its Hydrogen Atom Abstraction Chemistry and Reactivity toward H2. J Am Chem Soc. 2020 May 6;142(18):8233-8242. doi: 10.1021/jacs.0c00291. Epub 2020 Apr 23. PMID: 32279486.
6. Wang Q**\***, Nitka T**\***, Gao Q**\***, **Lee WY**, Chen X, Irimpan M, Vukovic L, Kim CY. X‐ray crystal structure of MonCI, an epoxidase from the monensin biosynthesis pathway. The FASEB Journal. 2020 Apr 1;34(S1):1-1
7. Qin Gao, Wen-Yee Lee. Urinary metabolites for urological cancer detection: a review on the application of volatile organic compounds for cancers. American journal of clinical and experimental urology. 2019;7(4):232.
8. Gao Q, Su X, Annabi MH, Schreiter BR, Prince T, Ackerman A, Morgas S, Mata V, Williams H, **Lee W-Y**. Application of Urinary Volatile Organic Compounds (VOCs) for the Diagnosis of Prostate Cancer, Clinical Genitourinary Cancer, 2019, https://doi.org/10.1016/j.clgc.2019.02.003.
9. Fuentes MD; Gutierrez S; Sahagun D; Gomez J; Mendoza J; Ellis CC; Bauer S; Blattner J; **Lee W-Y**; Alvarez M; Domínguez DC, Assessment of Antibiotic Levels, Multi-Drug Resistant Bacteria and Genetic Biomarkers in the Waters of the Rio Grande River Between the United States-Mexico Border, Journal of Health and Pollution (2019) 9 (23): 190912. <https://doi.org/10.5696/2156-9614-9.23.190912>
10. Sarma H, Nava AR, Encerrado-Manriquez AM, Dominguez DC, **Lee W-Y**, Biodegradation of bisphenol A by bacterial consortia isolated directly from river sediments. Environmental Technology & Innovation, 14, 2019, 100314. https://doi.org/10.1016/j.eti.2019.01.008.
11. Sarma, H.; **Lee, W.-Y**. Bacteria enhanced lignocellulosic activated carbon for biofiltration of bisphenols in water. Environ Sci Pollut Res Int. 2018 Jun;25(18):17227-17239. doi: 10.1007/s11356-018-2232-7. Epub 2018 May 28.
12. Tan, W. **\***, Gao,Q. **\***, Deng, C. **\***, Wang, Y. **\***, **Lee, W.-Y**., Hernandez-Viezcas, J.A., Peralta-Videa, J.R., Gardea-Torresdey, J.L,, Foliar Exposure of Cu(OH)2 Nanopesticide to Basil (Ocimum basilicum): Variety-Dependent Copper Translocation and Biochemical Responses, Journal of Agricultural and Food Chemistry 2018 66 (13), 3358-3366.
13. Toro-Vélez, A.; Madera-Parra, C; Peña-Varón, M.; García-Hernández, H.; **Lee, W.Y.,** Walker, S.; Lens, P. “ Longitudinal Removal of Bisphenol-A and Nonylphenols from Pretreated Domestic Wastewater by Tropical Horizontal Sub-Surface Constructed Wetlands”, Applied Sciences 2017, 7(8), 834; doi:10.3390/app7080834.
14. Toro-Vélez, A.F., Madera-Parra, C.A., Peña-Varón, M.R., **Lee, W.Y.,** Bezares-Cruz, J.C. **\***, Walker, W.S., Cárdenas-Henao, H., Quesada-Calderón, S., García-Hernández, H., Lens, P.N.L. “BPA and NP removal from municipal wastewater by tropical horizontal subsurface constructed wetlands”, Science of the Total Environment, 2016 Jan 15;542 (Pt A):93-101. doi: 10.1016/j.scitotenv.2015.09.154. Epub 2015 Oct 28.
15. Rocha-Gutiérrez, B.A., **Lee, W.-Y.,** Walker, W.S. “Mass balance and mass loading of Polybrominated Diphenyl Ethers (PBDEs) in a tertiary wastewater treatment plant using SBSE-TD-GC/MS”, Water Science and Technology, Available Online 24 September 2015, DOI: 10.2166/wst.2015.492.
16. Teoh, W.-T., **Lee, W.-Y.**, Sato, K. “Alginate-based Composite for Removal of Endocrine Disruptor Bisphenol A from Water: A Feasibility Study by Stir Bar Sorptive Extraction Method”, Proceedings of IGNITE 2013, Penang, Malaysia, December 5, 2013.
17. Rico, C. \*, Morales, M. \*, McCreary, R. \*, Castillo-Michel, H., Barrios, A. \*, Jong, J. \*, Tafoya, A. \*, **Lee, W.-Y.**, Varela-Ramirez, A., Peralta-Videa, J.R., Gardea-Torresdey, J.L, “Cerium Oxide Nanoparticles Modify The Antioxidative Stress Enzyme Activities And Macromolecule Composition In Rice Seedlings”, Environ. Sci. Technol., 2013, 47 (24), 14110–14118, DOI: 10.1021/es4033887.
18. Rico, C. \*, Morales, M. \*, Barrios, A. \*, McCreary, R. \*, Jong, J. \*, **Lee, W.-Y.,** Nunez, J., Peralta-Videa, J.R., Gardea-Torresdey, J.L, “Effect of Cerium Oxide Nanoparticles on the Quality of Rice (Oryza sativa L.) Grains” J. Agric. Food Chem., 2013, 61 (47), 11278–11285, DOI: 10.1021/jf404046v.
19. Rocha-Gutierrez, B.\*; **Lee, W.-Y.** “Investigation of Polybrominated Diphenyl Ethers in Wastewater Treatment Plants Along the U.S. and Mexico Border: a Trans-boundary Study”, Water Air Soil Pollution, 2013, 224:1398; DOI 10.1007/s11270-012-1398-8
20. Rocha-Gutierrez, B.\*; **Lee, W.-Y.** “Determination and comparison of polybrominated diphenyl ethers in primary, secondary, and tertiary wastewater treatment plants, International Journal of Environmental Analytical Chemistry, 2012, 92(13), 1518-1531, DOI:10.1080/03067319.2011.585713.
21. Ortiz, A.C.\*, Russell, M., **Lee**, **W.Y.,** Apte, M.G. and Maddalena R.. 2010 “Identifying Sources of Volatile Organic Compounds and Aldehydes in a High Performance Building” LBNL-3979, Lawrence Berkeley National Laboratory.
22. Yamaguchi, C.\*, **Lee, W.-Y.**, “A cost effective, sensitive, and environmentally friendly sample preparation method for determination of Polycyclic Aromatic Hydrocarbons in solid samples”, Journal of Chromatography A, 2010, 1217(44):6816-23.
23. Balsiger, H.A., de la Torre, R.\*, **Lee, W.-Y.**, Cox, M.B. “A Four-Hour Yeast Bioassay for the Direct Measure of Estrogenic Activity in Wastewater without Sample Extraction, Concentration, or Sterilization” Science of the Total Environment, 2010, 408(6), 1422-9.
24. Lauer, F.T., Mitchell, L.A.\*, Bedrick, E., McDonald, J.D., **Lee, W.-Y.**, Li, W.W., Olivera, H., Amaya, M.A., Berwick, M., Gonzales, M., Currey, R., Pingitore, N.E., and Burchiel, S.W. “Temporal-Spatial Analysis of U.S.- Mexico Border Environmental Fine and Coarse PM Air Sample Extract Activity in Human Bronchial Epithelial Cells”, Toxicology and Applied Pharmacology, 2009**,** 238(1), 1-10.
25. De La Torre-Roche, R.J.\*; **Lee, W.-Y.**; Campos-Díaz, S.I.\* “Soil-borne polycyclic aromatic hydrocarbons in El Paso, Texas: Analysis of a potential problem in the United States/Mexico border region, Journal of Hazardous Materials, 2009, 163(2-3), 946 – 958.
26. Carlo-Rojas, Z.\*; **Lee, W.-Y.**, “Cu and Zn Uptake Inhibition by PAHs as Primary Toxicity in Plants”, Proceedings of the 2007 National Conference on Environmental Science & Technology, 2009, Springer Science + Business Media, 41-46.
27. Hampton, E., **Lee, W.-Y.**, Funk, S., Keele, K., Wallace, M. ”Plastics in our Environment: A Jigsaw Learning Activity”, Science Scope, NSTA Press, 2009, 32, 56-61.
28. Shi, Y.\*; Murr, L.E.; Soto, K.F.\*; Guerrero, P.A.\*; **Lee, W.-Y.**; Ramirez, D.A.\* “Characterization and Comparison of Speciated Atmospheric Carbonaceous (Soot) Particulates and Their Polycyclic Aromatic Hydrocarbon Contents in the Context of the Paso Del Norte Airshed Along the U.S.-Mexico Border”, *Polycyclic Aromatic Compounds*, 2007, 27: 361-400.
29. **Lee, W.-Y.**, Hampton, E. "Innovation Integration: Chemistry + Education + Feminist Studies + Service Learning", The International SUN Conference 2006 Conference Proceedings, 2006. Accessed online at <http://sunconference.utep.edu/SunHome/2006/docs/proceedings/Innovation%20Integration.doc>
30. Mattina, M.J.; Eitzer, B.D.; Iannucci -Berger, W.; **Lee, W.-Y.**; White, J.C., “Plant Uptake and Translocation of Highly Weathered, Soil-Bound Technical Chlordane Residues: Data from Field and Rhizotron Studies”, *Environmental Toxicology and Chemistry*, 2004**,** 23 (11), 2756–2762.
31. **Lee, W.-Y.**; Iannucci -Berger, W.; Eitzer, B.D.; White, J.C.; Incorvia Mattina, M.J. “Plant Uptake and Translocation of Air-Borne Chlordane and Comparison with the Soil-to-Plant Route.” *Chemosphere,* 2003, 53, 111-121.
32. **Lee, W.-Y.**; Iannucci-Berger, W.; Eitzer, B.D.; White, J.C.; Incorvia Mattina, M.J. “Persistent Organic Pollutants in the Environment: Chlordane Residues in Compost”, *Journal of Environmental Quality,* 2003, 32, 224-231.
33. White, J.C.; Incorvia Mattina, M.J.; **Lee, W.-Y.**; Eitzer, B.D.; Iannucci -Berger, W. “Role of Organic Acids in Enhancing the Desorption and Uptake of Weathered *p,p’*-DDE by Cucurbita pepo” *Environmental Pollution*, 2003, 124, 71-80.
34. **Lee, W.-Y.**, Salvador, J. M., Bodige, K., “Synthesis of *trans*-2-(1-aryl-1-methylethyl) cyclohexylamines”, *Organic Letters*, 2000, 2 (7), 931-932.
35. Rum, G.; **Lee, W.-Y.**; Gardea-Torresdey, J. “Application of an USEPA Approved Method for Fluoride Determination in an Environmental chemistry laboratory: Fluoride Detection in Drinking Water” *Journal of Chemical Education*, 2000, 77, 1604-1607.

**Presentations** (Due to the large quantities of the presentations, only those from 2016 to 2020 are listed.)

1. Chacon, A.A., Lee, W.-Y., “Removal of Nonylphenol from water using Activated Carbon-Alginate (AlgC) beads”, UTEP GradExpo, November 9, 2021, El Paso, TX.
2. Noriega Landa, E., Encerrado Manriquez, A., Lee, W.-Y., “Fatty acid biomarkers for prostate cancer diagnosis”, UTEP GradExpo, November 9, 2021, El Paso, TX.
3. Habib, A; Lee, W.-Y., “In-situ multi-residue Derivatization and extraction of per- and polyfluoroalkyl substances (PFAS) in water coupled with GC-MS:, UTEP GradExpo, November 9, 2021, El Paso, TX.
4. Holbrook, K., Lee, W.-Y., “SOP for Urine Biomarkers within storage and sampling analyses”, UTEP GradExpo, November 9, 2021, El Paso, TX.
5. Habib, A; Lee, W.-Y., “Occurrence, Fate & Transport of Per- and Polyfluoroalkyl Substances (PFAS) in Water” World Water Day 2021, UTEP, El Paso, TX. March 24, 2021.
6. Lee, W.-Y., Gao, Q., SBUR, "Application of Urinary Volatile Organic Compounds for the Diagnosis of Renal Cancer," AUA, New Orleans, LA. (November 8, 2019).
7. Gao, Q., Lee, W.-Y., SBUR, "Urinary Metabolites for the Risk Stratification of Prostate Cancer," AUA, New Orleans, LA. (November 8, 2019).
8. Rangel, F.\*, Huang, H., Lee, W.-Y., COURI Symposium, "Concurrent Uptake of Organic Contaminants and Nanoparticles by Arabidopsis Thaliana," UTEP, UTEP. (August 3, 2019).
9. Huang, R.\*, Encerrado, A.\*, Lee, W.-Y., COURI Symposium, "Method Development for Extraction of Fatty Acids from Pork Fat Using a Solventless Extraction Technique," UTEP, UTEP. (August 3, 2019).
10. Rivera, C.\*, Encerrado, A.\*, Lee, W.-Y., COURI Symposium, "Method development for extraction of fatty acids from pork fat using SBSE and GC/MS," UTEP, UTEP. (August 3, 2019).
11. Orozco-Reza, J.\*, Arrieta, M.\*, Lee, W.-Y., COURI Symposium, "Bisphenol-A Removal from Drinking and Reclaimed Water Using Alginate Encapsulated Activated Carbon," UTEP, UTEP. (April 13, 2019).
12. Hinojos, G.\*, Lee, W.-Y., COURI Symposium, "Standard Operating Procedure for the analysis of Urinary Volatile Organic Compounds: Does Storage Really Matter?," UTEP, UTEP. (April 13, 2019).
13. Lee, W.-Y., Gao, Q.\*, American Society for Mass Spectrometry (ASMS) 66th Conference, "High-Throughput Detection of Volatile Organic Compounds in Urine for Renal Cancer Diagnosis," San Diego, CA. (June 3, 2018).
14. Lee, W.-Y., Gao, Q.\*, ASMS, "High-Throughput Detection of Volatile Organic Compounds in Urine for Prostate Cancer Diagnosis," San Diego, CA. (June 3, 2018).
15. Blattner, J., Dominguez, D, Bauer, S., Ellis, C., Lee, W.-Y., “Investigation of antibiotic residues in Rio Grande in El Paso and Sunland Park”, *COURI Symposium,* UTEP, El Paso, TX, Spring 2018.
16. Encerrado, A., Lee, W.-Y., “Method development for the analysis of Bisphenol A in milk using a solventless techniques – SBSE/TD GC/MS” *COURI Symposium,* UTEP, El Paso, TX, Spring 2018.
17. Lugo,F., Lee, W.-Y., “Bioactivated carbon-alginate composite materials for bisphenol A removal in water.” *COURI Symposium,* UTEP, El Paso, TX, Spring 2018.
18. Gao, Q.\*, Lee, W.-Y., "High-Throughput Detection of Volatile Organic Compounds in Urine for Cancer study" UTEP, El Paso, TX (March, 2018).
19. Gao, Q.\*, Lee, W.-Y., Society for Basic Urologic Research, "Study of urinary volatile organic compounds for diagnosis of Prostate Cancer by GC/MS," Tampa, FL. (November 9, 2017).
20. Tan, W.\*, Lee, W.-Y., Science Research Conference, "Foliar exposure of Cu(OH)2 nanopesticide to basil (Ocimum basilicum): Variety-dependent metabolic responses," University of Texas at San Antonio, San Antonio, TX. (October 6, 2017).
21. Xiang, T.\*, Lee, W.-Y., COURI Symposium Summer 2017, "Method development of urinary volatile organic compounds detection for prostate cancer diagnosis," UTEP, El Paso, TX. (August 2017).
22. Encerrado, A.\*, Lee, W.-Y., 253rd American Chemical Society NATIONAL MEETING & EXPOSITION, "Method Development for the Analysis of Bisphenol A in milk," American Chemical Society, San Francisco, CA. (April 2017).
23. Encerrado, A.\*, Lee, W.-Y., SACNAS, "Method Development for the Analysis of Bisphenol A (BPA) in Milk," Long Beach, CA. (October 16, 2017).
24. Lugo, F.\*, Lee, W.-Y., COURI Symposium Spring 2017, "Application of activated carbon alginate composite materials for removal of endocrine disruptors in water," UTEP, El Paso, TX. (April 2017).
25. Encerrado, A.\*, Lee, W.-Y., COURI Symposium Spring 2017, "Method Development for the Analysis of Bisphenol A in milk," UTEP, El Paso, TX. (April 2017).
26. Gao, Q.\*, Lee, W.-Y., PITTCON, "Study of urinary volatile organic compounds for diagnosis of Prostate Cancer by GC/MS," Chicago, IL. (March 9, 2017).
27. Lee, W.-Y., Aqua 2016 Equidad, Agua y Sustentabilidad, "New Challenges to determinate micro-pollutants in water," Cinara, Cali, Colombia. (November 8, 2016).
28. Loya, A.\*, Lee, W.-Y., SETAC North America 37th Annual Meeting, "Bisphenol A removal from water and wastewater using Activated Carbon-Alginate and Bentonite-Alginate beads," Orlando, FL. (November 7, 2016).
29. Encerrado, A.\*, Lee, W.-Y., SACNAS, "Method Development for the Analysis of Bisphenol A (BPA) in Milk," Long Beach, CA. (October 13, 2016).
30. Lee, W.-Y., Wang, L.\*, COURI, "Method Development for Urinary Volatile organic Compound (VOCs) as A diagnostic Tool for Prostate Cancer," UTEP, El Paso. (August 6, 2016).

**COMMITTEE & SERVICE**

*Department*

* Graduate Program Advisor (2019 – Present)
* Environmental Chemistry Faculty Search Committee Chair, October 2020 – May 15, 2021
* Lab Coordinator Search Committee member, December 2019
* Department Chair Search Committee Member, October 2019 – December 2019.
* Capstone Course Development Committee Chair, 2015 – 2017
* Department Administration Assistant Search Committee Member, July 2017
* Department of Chemistry, General Chemistry Coordinator Position Search Committee (August, 2015)
* Department of Chemistry, Analytical Chemistry Faculty Position Search Committee (2010-2011)
* Graduate Admission Committee for Chemistry Program (2008 to 2015)

*College*

* Graduate Curriculum Committee member (2020 – present)
* Admission Committee for Environmental Science Master Program (2007 to present)
* BBRC Program, Department of Biology, Toxicology Faculty Position Search Committee (2010)
* Program Development Committee in Master in Environmental Science (2005)
* College of Science Awards Committee – Chemistry Department Representative (2004 to 2009)
* Committee for Pathways Undergraduate Research Experience Program (PREP) (2004-2005)

*University*

* American Cancer Society Student Chapter Faculty Advisor (2019-present)
* SACNAS Student Chapter Faculty Advisor (2017-present)
* Student Conduct Hearing Officer, UTEP Office of Student Conduct and Conflict Resolution (2019 – present)
* COURI Advising Committee (2010- present)
* UTEP Student Grievance Committee (2015-2018)
* Faculty Senate, UTEP (2014-2016)
* Member of the Women’s Advisory Council to the President (2008 to 2011)
* Sigma Xi Admissions Committee (2006 to 2010)
* Program Development Committee for the Border Security Research Task Force, UTEP (2005)

# Professional Activities

Officer:

* Society of Environmental Toxicology and Chemistry, Southwest Regional Section, Officer, Treasurer, June 2019 – Present
* American Chemical Society, Rio Grande Valley Local Section, Officer, Treasurer, 2014 - Present

Grant proposal reviewer

* ConTex grant proposal reviewer
* NSF grant proposal reviewer
* National Institutes for Water Resources (NIWR) grant proposal reviewer

Manuscript Reviewer

* Talanta
* Environmental Toxicology and Chemistry
* Journal of Chromatography A
* Journal of Hazardous Materials
* Water Research
* Chemosphere

**Languages**

* English
* Chinese (Mandarin and Taiwanese)