

Gisella R. Lamas- Samanamud, PhD

Lecturer of Chemical Engineering – University of Kentucky
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Professional Preparation

University of Sao Paulo (SP, Brazil)	Biochemical Engineering	B.S., 2006
University of Sao Paulo (SP, Brazil)	Chemical Engineering	M.S., 2011
UT at San Antonio (San Antonio, TX)	Environmental Engineering	Ph.D., 2015

Appointments

2018 – Present	Lecturer, Courses: EGR101, CME 220, CME 330, CME 432, CME 433, CME 470, Dept of Chemical & Materials Engineering, UK
2018-2018	Lecturer II in Chemistry I Lab CHE1121, Dept Chemistry, UTSA
2017-2017	Lecturer in Environmental Engineering CE2633, Dept Civil and Environmental Engineering, UTSA
2016-2018	PostDoc Fellowship, Dept Civil and Environmental Engineering, UTSA
2012-2015	Research Assistant, Dept. Civil and Environmental Engineering UTSA
2006-2012	Teacher, Hernandez Carvalho Escola de Idiomas Ltda.
2008-2011	Water Quality Analyst, Env. Engineering Laboratory, USP
2005-2005	Biochemical Engineering Trainee, Sourcotech Quimica Ltda.
2004-2005	Research Assistant, Department of Biotechnology and Chemistry, USP

Products

Five Recent Products

1. Vaz, C. A. S., **Lamas Samanamud, G.**, da Silva, R. S., França, A. B., Finzi Quintão, C. M., Urzedo, A. P., Silva, M. B., Neto, J. C. B., Amaral, M. S., Loures, C. C. A., Naves, L. L. R., Naves, F. L. (2021) Modeling and optimization of hybrid leachate treatment processes and scale-up of the process: Review, *Journal of Cleaner Production*, 2021, 127732, ISSN 0959-6526,
2. Pinto, M. B., **Lamas Samanamud, G. R.**, Baston, E. P., França, A. B., Naves, L. L. R., Loures, C. C. A., & Naves, F. L. (2019). Multivariate and multiobjective optimization of tannery industry effluent treatment using *Musa sp* flower extract in the coagulation and flocculation process. *Journal of Cleaner Production*.
3. Teixeira, G. N. O., da Cruz, A. M. S., **Lamas-Samanamud, G. R.**, Franca, A. B., Naves, L. L. R., Melo, D., Morais, D., Baston, E., Naves, F. (2019). The use of nanovermiculite catalyst in the study of removal of the organic load and degradation of atrazine via ozone process in RPB reactor. *Journal of Environmental Science and Health, Part B*.
4. Braga, W. L. M., de Melo, D. H. a., Morais, D., **Lamas Samanamud, G. R.**, Franca, A. B., Finzi Quintao, C. M., Loures, C. C. A., de Urzedo, A. P. F. M., Naves, L. L. R., Gomes, J. H. de Freitas, Naves, F. L. (2019) Optimization of the treatment of sanitary landfill by the ozonization catalyzed by modified nanovermiculite in a rotating packed bed. *Journal of Cleaner Production, In Press*.
5. de Lima, B. A., de Castro, P. P. R., França, A. B., Baston, E. P., Lofrano, R. C. Z., **Samanamud, G. R. L.**, Loures, C. C. A & Naves, F. L. (2018). Evaluation of the effectiveness of red mud-supported catalysts in combination with ozone and TiO₂ in the treatment of solution containing benzene, toluene, and xylene. *Environmental monitoring and assessment*, 190(9), 560.

Five Other Significant Products

1. Braga, W. L. M., Roberto, J. A., Vaz, C., **Lamas-Samanamud, G. R.**, Loures, C. C. A., França, A. B., Lofrano, R. C. Z., Naves, L. L., Gomes, J. H., Naves, F. L., (2018) Extraction and optimization of tannin from the flower of *Musa sp.* applied to the treatment of iron ore dump. *Journal of Environmental Chemical Engineering*, 6 (2018).

- Moura, D., Barcelos, V., **Lamas-Samanamud, G. R.**, França, A. B., Lofrano, R., Loures, C. C. A., Naves, L. L. R., Amaral, M. S., Naves, F. L., (2018) Normal boundary intersection applied as multivariate and multiobjective optimization in the treatment of amoxicillin synthetic solution. *Environmental Monitoring and Assessment*, 190 (3), 140.
- Lamas-Samanamud, G. R.**, Shipley, H. J., (2017) Effect of Carbon Sources on the Stability and Competition of T7aiiA Phage Lysates. *Environmental Engineering Science*, 34 (3), 139 – 148.
- Pei, R. **Lamas-Samanamud, G. R.**, (2014) Inhibition of biofilm formation by T7 bacteriophages producing quorum quenching enzymes. *Applied and Environmental Microbiology*. 80 (17), 5340-5348
- Loures, C. C. A., Izário Filho, H. J., Oliveira, I. S., **Lamas Samanamud, G. R.**, de Souza, A. L., Silva, M. B., (2014) The Application of Response Surface Methodology in the Study of Photodegraded Industrial Dairy Effluents by the Photo-Fenton Process: Optimization and Economic Viability. *ISRN Chemical Engineering*, Vol. 2014, Article ID 967534, 9 pages.

Synergistic Activities

- Reviewer for the journals of *Science of Total Environment*, *Applied and Environmental Microbiology*, *Environmental Science: Processes & Impacts*, *British Journal of Applied Science & Technology*, *Environmental Engineering and Management Journal*, *Environmental Engineering Science*.
- Professional Organizations Member: Association of Environmental Engineering & Sciences Professor, Society of Women Engineers, American Indian Science and Engineering, Engineers Without Borders, International Biodeterioration & Biodegradation
- Grant: CNPQ (2018), San Antonio Postdoctoral Research Forum Travel Grant (2016), NSF Travel Assist Grant (2016), UTSA Connect Fund (2016) and NSF CBET-1438622 (2015).
- Honors and Awards: NSF Travel award 2020, NSF - ACADEME – Early Faculty Career Development (2018), 2nd Place Poster Presentation at EcoExchangeEdu (2018), 2nd Place Poster Presentation at Spring Colloquium (2018), 2nd Place Poster Presentation at UTHSCSA (2016), Who’s Who at UTSA (2015), Best Oral/ Poster Presentation UTSA (2012).
- National Science Foundation Graduate Panel Reviewer (2019), COS Research Conference Judge (2018), Ecybersubmission Cyber Judge (’17, ’18), HENAASC Scholarships Reviewer (’17, ’18), State of Texas Science Fair judge (’14-’16), UTSA Morese Colloquium Judge (2013)
- Faculty advisor AIChE – UK Paducah campus

Collaborators and Other Affiliations

Collaborators and Co-editors: (20)

Carla C. A. Loures (CEFET)

Fabiano Naves (UFSJ)

Heather J. Shipley (UTSA)

Helcio J. Izario Filho (USP)

Messias B. Silva (USP)

Mateus Amaral (UFOP)

Ana Paula B. R. de Freitas (UNESP)

Leandro V. de Freitas (PETROBRAS)

Fernando A. S. Marins (UNESP)

Ivy S. Oliveira (USP)

Andre L. Souza (USP)

Rodrigo S. Salazar (UERGS)

Andre L. C. Peixoto (IFSP)

Oswaldo L. C. Guimaraes (USP)

Marco Alcantara (USP)

Antonio Teixeira (USP)

Teresa Paiva (USP)

Flavio Silva (USP)

Ruoting Pei (UTSA)

Undergraduate advisors: (7)

Andrea Mertins (UTSA)

Fernando Lopez (UTSA)

Armando Montante III (UTSA)

Nikolas Carwile (UTSA)

Abigail Feese (UKY)

Caitlyn York (UKY)

Emilye Garner (UKY)