

RENAN FELICIO DOS REIS

PERSONAL DATA

Lecturer

School of Civil and Environmental Engineering and Earth Sciences (EEES)

433 Brackett Hall – Clemson University

Clemson, SC 29634

864-656-3276

EDUCATION

- Ph.D., Federal University of Sao Carlos (UFSCar), Brazil, 2017, Urban Engineering
- Certificate in Pedagogical Teacher Training for Technical and Vocational Education, 2017, Federal Institute of Sao Paulo (IFSP), Brazil
- Postgraduate Certificate in Occupational Health and Safety Engineering, 2015, University of Sao Paulo (USP), Brazil
- Postgraduate Certificate in Environmental Management, 2011, Federal University of Sao Carlos (UFSCar), Brazil
- M.Sc., Federal University of Sao Carlos (UFSCar), Brazil, 2011, Urban Engineering
- B.Sc., State University of Sao Paulo (UNESP), Brazil, 2008, Environmental Engineering

PROFESSIONAL REGISTRATION

- Professional Engineering Registration – Environmental Engineering & Occupational Health and Safety Engineering (CREA-SP), Sao Paulo, Brazil, Original Issue: 2010, Registration No. 5063047831.

PROFESSIONAL EXPERIENCE

- University of South Florida (USF), 2025-2025, Adjunct Instructor
- University of South Florida (USF), 2024-2026, Research Scholar
- Federal Institute of Sao Paulo (IFSP), Brazil, 2014-2025, Associate Professor
- University of Sao Paulo (USP/ESALQ), Brazil, 2020-2020, Graduate Course Instructor (Invited)
- Federal Institute of Sao Paulo (IFSP), Brazil, 2015-2019 & 2021-2023, Coordinator of the Undergraduate Program in Environmental Management
- Autonomous University of Barcelona (UAB), Spain, 2014-2015, Ph.D. Research Scholar
- Educational University of Barretos (UNIFEB), Brazil, 2012-2014, Assistant Professor
- University of Rio Preto (UNIRP), Brazil, 2011-2011, Graduate Course Instructor (Invited)

CONSULTING EXPERIENCE

- Brazilian Labor Court, Sao Paulo State (2021-2024), Brazil, Court-Appointed Technical Expert, conduct technical site inspections, prepare expert reports, and submit documents
- Perfecta Industria Comercio e Servicos LTDA, Sao Paulo State (2023-2024), Brazil, Occupational Safety Engineer, assessment, planning, and monitoring of occupational health and safety management
- Environmental Engineering Consulting, Sao Paulo State (2017-2024), Brazil, Environmental Engineer, conduct environmental licensing processes and prepare environmental management plans (e.g. solid waste management)
- Mitigacao Engenharia LTDA, Sao Paulo State (2011-2013), Brazil, Environmental Projects Coordinator, environmental project coordinator (temporary, project basis) in territorial planning projects
- Irrigart Engenharia e Consultoria em Recursos Hidricos e Meio Ambiente LTDA, Sao Paulo State (2010-2011), Environmental Projects Coordinator, coordinated environmental projects for public and industrial water user registration programs

MEMBERSHIPS

- Member, American Water Works Association, AWWA, (2025-Present)

- Researcher, GeTecSAM – Environmental Sanitation Management and Technology Research Group (CNPq), Federal Institute of Sao Paulo – IFSP (2014-Present)
- President (Technical Council), Vuturussu Association, Brazil, (2022-2025)
- Researcher, Environmental Management and Sustainable Technologies Research Group (CNPq), Educational University of Barretos – UNIFEB (2012-2014)

HONORS AND AWARDS

- Honored Professor, Department of Environmental Management, Federal Institute of Sao Paulo – IFSP (2015, 2016, 2018, 2019, 2022).
- Honored Professor, Department of Environmental Engineering, Educational University of Barretos – UNIFEB (2014).
- Financial Education Project Grant (USD \$9,000), National Council for Scientific and Technological Development (CNPq), Brazil, funded by the Brazilian Ministry of Education (2018).
- Principal Investigator, Institutional Research Grant (PIBIFSP) (Total student funding: USD \$1,920), Federal Institute of Sao Paulo – IFSP (2018, 2019, 2020).
- Technical Cooperation Research Award (Equipment acquisition and student support; total funding: USD \$10,760), Vuturussu Association and Federal Institute of Sao Paulo (2022–2024).

PUBLICATIONS

H-Index: 5

Google Scholar H-Index: 5

Books and Monographs

Prior to Clemson

1. Achon, C. L., Reis, R. F., & Cordeiro, J. S. "Environmental and Technological Management of Wastewater Treatment Plant Residues: The Contribution of PPGEU to Small and Medium-Sized Municipalities" [Portuguese title: "Gestão ambiental e tecnológica de resíduos de ETE: a contribuição do PPGEU para municípios de pequeno e médio porte."] In Ventura et al. (Eds.), 25 Years: Graduate Program in Urban Engineering (PPGEU), 1st ed., UFSCar/CPOI, São Carlos, Brazil, Vol. 1, pp. 48–60 (2020).
2. Cordeiro, J. S., Achon, C. L., & Reis, R. F. "Drainage Beds for Water Treatment Plant Sludge: The Contribution of PPGEU to Small and Medium-Sized Municipalities" [Portuguese title: "Leitos de drenagem para resíduos de ETAs: contribuição do PPGEU para municípios de pequeno e médio porte."] In Ventura et al. (Eds.), 25 Years: Graduate Program in Urban Engineering (PPGEU), 1st ed., UFSCar/CPOI, São Carlos, Brazil, Vol. 1, pp. 71–82 (2020).
3. Fontana, A. O., Cordeiro, J. S., Achon, C. L., Barroso, M. M., & Reis, R. F. "Dewatering Water Treatment Plant Sludge: Successful Experiences Using Drainage Beds" [Portuguese title: "Desaguamento de lodos de ETAs: experiências bem-sucedidas com emprego de leito de drenagem."] In Paniagua et al. (Eds.), Collection of Engineering Challenges: Sanitary Engineering 2, 1st ed., Atena Editora, Ponta Grossa, Brazil, pp. 87–103 (2021). <https://doi.org/10.22533/at.ed.379211310>
4. Reis, R. F., Achon, C. L., & Cordeiro, J. S. "The Importance of Covering Systems in the Efficiency of Water Treatment Plant Sludge Dewatering Using Drainage Beds" [Portuguese title: "A importância da cobertura na eficiência do processo de desaguamento de lodo de ETA em leitos de drenagem."] In Paniagua et al. (Eds.), Collection of Engineering Challenges: Sanitary Engineering 2, 1st ed., Atena Editora, Ponta Grossa, Brazil, pp. 104–121 (2021). <https://doi.org/10.22533/at.ed.379211310>

Refereed Journal Publications

Published

Prior to Clemson

1. Minatel, M. M., Achon, C. L., & Reis, R. F. "Controlled Tests for Dewatering Water Treatment Plant Sludge in Drainage Beds: Influence of Solids Content" [Portuguese title: "Ensaio controlados para

- análise de desaguamento de lodo de ETA em leitos de drenagem: influência do teor de sólidos." *Revista DAE*, **72**, 1–14 (2024). <https://doi.org/10.36659/dae.2024.035>
2. Fatobene, G., Alves, L. C., Soto, F. R. M., Rodrigues, R. A., & Reis, R. F. "Physicochemical, Microbiological, and Heating Value Characterization of Sludge from Swine Facility Effluent" [Portuguese title: "*Caracterização físico-química, microbiológica e poder calorífico de lodo originário de efluente suíno.*"] *Revista em Agronegócio e Meio Ambiente*, **14**, 1–16 (2021). <https://doi.org/10.17765/2176-9168.2021v14n3e7929>
 3. Reis, R. F., Gomez, R. B., Font, X., Komilis, D., & Cordeiro, J. S. "Biodrying as an Alternative Treatment and Energy Recovery Strategy for Wastewater Treatment Plant Sludge" [Portuguese title: "*Biossecagem como alternativa de tratamento e aproveitamento energético de lodo de ETE.*"] *Revista DAE*, **70**, 47–60 (2021). <https://doi.org/10.36659/dae.2022.019>
 4. Marques, D. G., Reis, R. F., & Rodrigues, R. A. "Sodium Hydroxide Demand in Chlorine Gas Neutralization in Simulation Absorption Towers Using Aspen Plus Software" [Portuguese title: "*Demanda de hidróxido de sódio na neutralização de gás cloro em torres de absorção simulada no software Aspen Plus.*"] *Brazilian Journal of Development*, **6**, 94110–94124 (2020). <https://doi.org/10.34117/bjdv6n12-032>
 5. Signorelli, S. C. M., Nakashima, M. E., Carneiro, T. F., & Reis, R. F. "Characterization of Lees Resulting from the Winemaking Process and Evaluation of Their Energy Potential" [Portuguese title: "*Caracterização da borra proveniente do processo de vinificação e avaliação do seu potencial energético.*"] *Revista Brasileira de Viticultura e Enologia*, **12**, 76–83 (2020).
 6. Marques, D. G., Reis, R. F., Gonçalves, D. H., & Rodrigues, R. A. "Estimation of Sludge Production in Jar Test Trials" [Portuguese title: "*Estimativa de produção de lodo em ensaios de jar test.*"] *Hydro (São Paulo)*, **XV**(147), 34–39 (2020).
 7. Oliveira, J. S., Achon, C. L., & Reis, R. F. "Biodrying of Sewage Sludge Using Laboratory-Scale Reactors: Comparison Between Experimental Studies and the Literature" [Portuguese title: "*Biossecagem de lodo de esgoto usando reatores em escala laboratorial: comparação de ensaios realizados e literatura.*"] *Engenharia Urbana em Debate*, **1**, 258–273 (2020).
 8. Reis, R. F., Oliveira-Andreoli, E. Z., Felicio, M. C., & Rotta, L. H. S. "Quantification of Lots Located in Permanent Preservation Areas in Two Micro-Watersheds in Paisagem Colonial Neighborhood, São Roque, São Paulo State" [Portuguese title: "*Quantificação de lotes situados em APP em duas microbacias do bairro Paisagem Colonial do município de São Roque/SP.*"] *Scientia Vitae*, **9**(28), 46–68 (2020).
 9. Ferro, I. C. S., Reis, R. F., & Mendanha, G. R. "The IFSP São Roque Campus Community Perception Regarding Basic Sanitation" [Portuguese title: "*A percepção da comunidade do IFSP Câmpus São Roque quanto ao saneamento básico.*"] *Scientia Vitae*, **9**(27), 41–60 (2020).
 10. Reis, R. F., Cordeiro, J. S., Font, X., & Achon, C. L. "The Biodrying Process of Sewage Sludge: A Review." *Drying Technology*, **38**, 1–14 (2019). <https://doi.org/10.1080/07373937.2019.1629689>
 11. Barroso, M. M., Achon, C. L., Reis, R. F., & Cordeiro, J. S. "Drainage Bed: A Natural System for Water Treatment Plant Sludge Dewatering and Drying with Different Coagulant Chemicals in Tropical Countries." *Journal of Water Resource and Protection*, **6**, 1029–1036 (2014). <https://doi.org/10.4236/jwarp.2014.611097>
 12. Reis, R. F., & Cordeiro, J. S. "Dewatering of Water Treatment Plant Sludge Using Covered Drainage Beds" [Portuguese title: "*Remoção de água de lodos de ETAs em leito de drenagem coberto.*"] *Hydro (São Paulo)*, **VI**, 46–53 (2011).
 13. [Authors, "Title of Article," *Title of Journal*, **Volume**, Pagination (Year). **Impact Factor (optional)**]

Conference Proceedings (Reviewed)

Prior to Clemson

1. Marques, D. G., Reis, R. F., & Felicio, M. C. "Evaluation of Methods for Predicting Water Treatment Plant Sludge Generation" [Portuguese title: "*Avaliação de métodos de previsão de geração de LETA.*"] *Proceedings of the 1st National Meeting on Water Treatment Plant Sludge (LETA 2021)*, ITA/UNESP/USP, São Paulo, Brazil (2021).
2. Marques, D. G., & Reis, R. F. "Evaluation of Electricity Consumption with Emphasis on Eco-efficiency of the São Lourenço Water Production System" [Portuguese title: "*Avaliação do consumo de energia*"]

- elétrica com ênfase na ecoeficiência do sistema produtor São Lourenço." Proceedings of the Brazilian Technological Congress on Water and Energy, Online (2021).
3. Fontana, A. O., Cordeiro, J. S., Achon, C. L., Barroso, M. M., & Reis, R. F. "Dewatering Water Treatment Plant Sludge: Successful Experiences with Drainage Bed Implementation" [Portuguese title: "*Desaguamento de lodos de ETAs: experiências bem-sucedidas com implantação de leito de drenagem.*"] Proceedings of the 1st National Meeting on Water Treatment Plant Sludge (LETA 2021), ITA/UNESP/USP, São Paulo, Brazil (2021).
 4. Minatel, M. M., Achon, C. L., Silva, G. M. P., & Reis, R. F. "Controlled Tests for Water Treatment Plant Sludge Dewatering in Drainage Beds: Influence of Sludge Layer Height" [Portuguese title: "*Ensaaios controlados de desaguamento de lodo de ETA em leitos de drenagem: influência da altura da camada de lodo.*"] Proceedings of the 1st National Meeting on Water Treatment Plant Sludge (LETA 2021), ITA/UNESP/USP, São Paulo, Brazil (2021).
 5. Silva, G. M. P., Minatel, M. M., Achon, C. L., & Reis, R. F. "Influence of Nonwoven Geotextiles on Water Treatment Plant Sludge Dewatering Using Drainage Beds" [Portuguese title: "*Influência de geotêxteis não tecidos no desaguamento de lodo de ETA usando leito de drenagem.*"] Proceedings of the 1st National Meeting on Water Treatment Plant Sludge (LETA 2021), ITA/UNESP/USP, São Paulo, Brazil (2021).
 6. Reis, R. F., Achon, C. L., & Cordeiro, J. S. "Covered Drainage Beds and Their Efficiency in Water Treatment Plant Sludge Dewatering" [Portuguese title: "*Leitos de drenagem cobertos e sua eficiência em desaguamento de LETA.*"] Proceedings of the 1st National Meeting on Water Treatment Plant Sludge (LETA 2021), ITA/UNESP/USP, São Paulo, Brazil (2021).
 7. Almeida, M. C. R., Achon, C. L., Reis, R. F., & Akutsu, J. "Factors Influencing the Biological and Physical Processes of Sewage Sludge Biodrying" [Portuguese title: "*Fatores que influenciam os processos biológicos e físicos da biossecagem do lodo de esgoto.*"] Proceedings of the XIX Luso-Brazilian Symposium on Sanitary and Environmental Engineering (SILUBESA), Recife, Brazil (2020).
 8. Felício, M. C., Guandique, M. E. G., & Reis, R. F. "Survey and Evaluation of Technical Chambers of Watershed Committees in the State of São Paulo, Brazil" [Portuguese title: "*Levantamento e avaliação das câmaras técnicas dos comitês de bacias hidrográficas (CBHs) do estado de São Paulo.*"] Proceedings of the 17th National Environmental Congress of Poços de Caldas, Poços de Caldas, Brazil, 12, 1–7 (2020).
 9. Felício, M. C., Reis, R. F., & Gonçalves, B. "Survey and Characterization of Plastic Materials Generated in a Higher Education Institution" [Portuguese title: "*Levantamento e caracterização dos materiais plásticos gerados em uma instituição de ensino superior.*"] Proceedings of the 17th National Environmental Congress of Poços de Caldas, Poços de Caldas, Brazil, 12, 1–6 (2020).
 10. Cordeiro, J. S., Reis, R. F., Achon, C. L., & Barroso, M. M. "Evolution of Drainage Beds in Brazil: A Decade of Progress" [Portuguese title: "*Evolução dos leitos de drenagem (LD) no Brasil: uma década de avanços.*"] Proceedings of the XXXIV Inter-American Congress of Sanitary and Environmental Engineering (AIDIS), Monterrey, Mexico (2014).
 11. Reis, R. F., Cordeiro, J. S. "Sustainable Uses and Methods for Water Treatment Plant Sludges." Proceedings of the 11th Global Conference on Sustainable Manufacturing: Resource Utilization, Berlin, Germany (2013).
 12. Reis, R. F., & Cordeiro, J. S. "Acceleration of Water Treatment Plant Sludge Dewatering Using Covered Drainage Beds" [Portuguese title: "*Aceleração na remoção de água de lodos de ETAs em leitos de drenagem cobertos.*"] Proceedings of the X Italian-Brazilian Symposium on Sanitary and Environmental Engineering, Maceió, Brazil (2010).
 13. Reis, R. F., & Cordeiro, J. S. "Dewatering of Water Treatment Plant Sludges Using Drainage Beds" [Portuguese title: "*Remoção de Água de Lodos de Estação de Tratamento de Água Usando Leitos de Drenagem Cobertos.*"] Proceedings of the XXXII Inter-American Congress of Sanitary and Environmental Engineering (AIDIS), Punta Cana, Dominican Republic (2010).

Conference Proceedings (Unreviewed)

Prior to Clemson

1. Ramos, J. V. D. P., Oliveira, R., & Reis, R. F. "Diagnosis of Sludge Management in Five Water Treatment Plants of UGRHI 10 and the Importance of Proper Residual Management" [Portuguese title: "*Diagnóstico da gestão de lodo de cinco ETAs da UGRHI 10 e a importância da gestão adequada*"]

deste resíduo." Proceedings of the 11th IFSP Scientific and Technological Initiation Congress, Presidente Epitácio, Brazil (2020).

2. Ferro, I. C. S., Mendanha, G. R., & Reis, R. F. "Challenges in Assessing the São Roque Population's Perception Regarding Basic Sanitation" [Portuguese title: "*Desafios para analisar a percepção da população são-roquense quanto ao saneamento básico.*"] Proceedings of the VIII Scientific and Technological Production Conference and XI Technological Lecture Series (CIPATEC), São Roque, Brazil, 258–266 (2019).

PRESENTATIONS

1. Gautam, N., Ergas, S. J., Bhattacharjee, A. S., Reis, R. F., Okyere, K. D., & Hamid, A. "Improving Sludge Settleability in an Oxidation-Ditch Water Reclamation Facility: Integration of Operational and Microbial Assessments." Poster presentation, Florida Section American Water Works Association (FSAWWA) Fall Conference, Orlando, FL (December 2025).
2. Gautam, N., Ergas, S. J., Bhattacharjee, A. S., Reis, R. F., Okyere, K. D., & Hamid, A. "Improving Sludge Settleability in an Oxidation-Ditch Water Reclamation Facility: Integration of Operational, Microbial, and Clarifier Assessments." Poster presentation, 35th Annual Southwest Florida Water Resources Conference, Florida Gulf Coast University, Fort Myers, FL (January 2026).
3. Gautam, N., Ergas, S. J., Bhattacharjee, A. S., Reis, R. F., Okyere, K. D., & Hamid, A. "Improving Sludge Settleability in an Oxidation-Ditch Biological Nutrient Removal (BNR) Facility." Oral presentation, Florida Water Resources Conference, Daytona Beach, FL (April 2026).

OTHER SPONSORED ACTIVITY

- Research Collaborator, "NRWRF Sludge Study & Full-Scale Activated Sludge Pilot," University of South Florida (USF), External Sponsored Research Project, July 2024-July 2025.
- Research Collaborator, "Intensification of Falkenberg Road Advanced Water Reclamation Facility," University of South Florida (USF), External Sponsored Research Project, July 2025-Present.

GRADUATE STUDENT ADVISING

Master's Graduates

- Marina da Costa Ribeiro de Almeida, (MS, Urban Engineering), "Study of the Anaerobic Sludge Biodrying Process and Alternatives for Biosolids Disposal" [Portuguese title: "*Estudo do processo de biossecagem de lodo anaeróbio e das alternativas de destinação do lodo biosseco.*"], 2018, (Co-Advisor)
- Matheus Morais Minatel, (MS, Urban Engineering), "Influence of Multiple Factors on Water Treatment Plant Sludge Dewatering Using Drainage Beds" [Portuguese title: "*Influência de múltiplos fatores no desaguamento de lodo de ETA em leitos de drenagem.*"], 2018, (Co-Advisor)

Capstone Project Supervision and Undergraduate Student Advising

- Kaylie Dimisa-Nunez, Jordin Kahler, Hannah McGuire, Leah Werth, "Biosolids Process Train Analysis – Plant City Utilities," Civil and Environmental Engineering Capstone Design Project, University of South Florida (USF), 2026, (Faculty Mentor/Advisor).
- Adriana Mayr Mejia, Isabella Guzaldo, Isaac Washington, Ochithya Fernando, Schuyler Jones, "From Waste to Worth: Biosolids Optimization at the Howard F. Curren Advanced Wastewater Treatment Plant," Civil and Environmental Engineering Capstone Design Project, University of South Florida (USF), 2025, (Faculty Mentor/Advisor). First Place Award, Florida Water Resources Conference (FWRC) Student Design Competition, 2025. First Place Award, WEFTEC National Student Design Competition, 2025.
- Santosh Jagan, Chase Royall, Regina Demechko, Garrett Rolle, Nicholas Moran, "David L. Tippin Water Treatment Facility (DLTWTF) Sludge Processing Redesign," Environmental Engineering Capstone Design Project, University of South Florida (USF), 2025, (Faculty Mentor/Advisor). First Place Award, Florida Water Resources Conference (FWRC) Student Design Competition, 2025. Third Place Award, WEFTEC National Student Design Competition, 2025.

- Vanessa da Silva Lessa Santos, "Rainwater Harvesting for the Sports Gymnasium Area at the Federal Institute of São Paulo – São Roque Campus", Undergraduate Capstone Project, Environmental Management (Technology Degree), Federal Institute of São Paulo (IFSP), 2018, (Advisor).
- Sofia Caroline Moraes Signorelli, "Characterization of Wine Production Residue and Evaluation of Its Energy Potential", Undergraduate Capstone Project, Chemical Engineering, University of Campinas (UNICAMP), 2018, (Advisor).
- Mariana Ery Nakashima, "Characterization of Wine Production Residue and Evaluation of Its Energy Potential", Undergraduate Capstone Project, Chemical Engineering, University of Campinas (UNICAMP), 2018, (Advisor).
- Giovanni Fatobene, "Physicochemical, Microbiological, and Heating Value Characterization of Sludge from Swine Wastewater Treatment", Undergraduate Capstone Project, Environmental Management, Federal Institute of São Paulo (IFSP), 2018, (Advisor).
- Sandra Fonseca da Silva, "Construction of a Biodigester Septic System for a Single-Family Rural Property", Undergraduate Capstone Project, Environmental Management, Federal Institute of São Paulo (IFSP), 2017, (Advisor).
- Antonio Silva dos Santos, "Environmental Assessment of the Ribeirão Carambeí Watershed: Development of a GIS Database", Undergraduate Capstone Project, Environmental Management, Federal Institute of São Paulo (IFSP), 2016, (Advisor).
- Samanta Driéli Franzoni, "Analysis of Sustainability Indicators Applied to Solid Waste Management Challenges", Undergraduate Capstone Project, Environmental Engineering, University Center of the Educational Foundation of Barretos (UNIFEB), 2014, (Advisor).
- Tatiane Freitas Bueno, "Composting Facility for Slaughterhouse Waste: Minerva, Barretos-SP", Undergraduate Capstone Project, Environmental Engineering, University Center of the Educational Foundation of Barretos (UNIFEB), 2014, (Advisor).
- Douglas Spirilandelli Santos, "Quantification of Pollutant Loads Generated by Water Treatment Plants from Untreated Sludge Discharge into Water Bodies: Case Study of Ituverava-SP", Undergraduate Capstone Project, Environmental Engineering, University Center of the Educational Foundation of Barretos (UNIFEB), 2013, (Advisor).
- Flávio Fernandes, "Efficiency Evaluation of a Filtration System for Stormwater Treatment", Undergraduate Capstone Project, Environmental Engineering, University Center of the Educational Foundation of Barretos (UNIFEB), 2013, (Advisor).
- Juliana Bellan Teixeira, "Implementation Design of a Drainage Bed System for Water Treatment Plant Sludge from Ipuã-SP", Undergraduate Capstone Project, Environmental Engineering, University Center of the Educational Foundation of Barretos (UNIFEB), 2013, (Advisor).
- Mayron Hugo Firmino Silva, "Impacts of Untreated Water Treatment Plant Sludge Discharge into Water Bodies: A Case Study", Undergraduate Capstone Project, Environmental Engineering, University Center of the Educational Foundation of Barretos (UNIFEB), 2012, (Advisor).

TEACHING

Courses Taught

University of South Florida (USF)

Undergraduate Courses

- EGN 3353, Basic Fluid Mechanics, F25
- ENV 4612, Green Engineering, S26 (*Taught selected topics within the course only)

Federal Institute of São Paulo (IFSP)

Undergraduate Courses

- QUIF1, General Chemistry, S15
- SRQIGAM, Introduction to Environmental Management, S15, S16, S23, S24
- SIGEO, Geographic Information Systems (GIS), S15, S16
- SRQTAEF, Water and Wastewater Treatment, S15, F15, S16, F16, S17, F17, F18, F19, F20, F21, F22, F23
- SRQMBHI, Watershed Management, F15
- LAAMB, Environmental Licensing and Audit, S16, F16
- GEOG3, Geoprocessing, S17, S18, S19

- SRQSAMB, Environmental Sanitation, S17, S18, S19, S20, S21, S22, S23, S24
- SRQAIAL, Environmental Impact Assessment and Licensing, S19, S20, S21, S22, S23, S24

Technical Degree Courses

- SIA-2, Environmental Sanitation I, S18, F18, S19, F19, S20, F20, S21, F21, S22, F22, S23, F23, S24
- SII-3, Environmental Sanitation II, S19, F19, S20, F20, S21, F21, S22, F22, S23, F23, S24
- LAA-3, Environmental Licensing, S19, F19, S20, F20, S23, F23, S24

Professional Certificate / Extension Courses

- SRQ036, Water Treatment Plant and Wastewater Treatment Plant Sludge Management, Advanced Topics in Environmental Sanitation Program (Training program for employees of sanitation service systems/utilities), F18, F23

Educational University of Barretos (UNIFEB)

Undergraduate Courses

- SSPU, Sanitation and Public Health, S12, F12, S13, F13, S14
- PMIA, Environmental Impact Mitigation Projects, F12, F13
- SAMB, Environmental Sanitation, F12, F13
- AAMB, Environmental Audit, F13, S14
- PRRE, Waste Reuse Project, S13, S14
- EAMB, Environmental Engineering, S13, S14

University of Rio Preto (UNIRP)

Specialization Course in Environmental Management and Law

- PABM, Environmental Problems in Brazil and Worldwide, F11

University of Sao Paulo (USP/ESALQ - SolloAgro)

Professional Training Course in Environmental Regularization of Companies and Rural Properties

- AIAM, Environmental Impact Assessment, F20

New Course Development

- SRQFIC, Advanced Topics in Environmental Sanitation: Water Treatment Plant and Wastewater Treatment Plant Sludge Management, Federal Institute of Sao Paulo (IFSP), Fall 2018

PROFESSIONAL ACTIVITIES

Editorial and Professional Service

- Peer Reviewer, Water Science and Technology (2013-Present)
- Peer Reviewer, Scientia Vitae (2015-Present)
- Peer Reviewer, Compost Science & Utilization (2020-Present)
- Peer Reviewer, Chemosphere (2023-Present)
- Peer Reviewer, Euro-Mediterranean Journal for Environmental Integration – EMJE (2024-Present)
- Peer Reviewer, Environmental Science & Technology (2025-Present)

UNIVERSITY AND PUBLIC SERVICE

Continuing Education

- "Advanced Topics in Environmental Sanitation: Water Treatment Plant and Wastewater Treatment Plant Sludge Management," Course Developer and Instructor, Federal Institute of Sao Paulo (2018; 2023)
- "Environmental Impact Assessment," Instructor, Professional Training Program in Environmental Regularization of Companies and Rural Properties, University of São Paulo (USP/ESALQ) (2020)

- "Environmental Problems in Brazil and Worldwide," Instructor, Graduate Certificate Program in Environmental Management and Law, University of Rio Preto (UNIRP) (2011)

Academic Leadership

- Program Coordinator, B.S. Program in Environmental Management, Federal Institute of Sao Paulo – IFSP (2015-2019; 2021-2023)
- Chair, Program Academic Committee, B.S. Program in Environmental Management, Federal Institute of Sao Paulo – IFSP (2015-2019; 2021-2023)
- Chair, Undergraduate Curriculum Committee (NDE), Environmental Engineering Program, Educational Foundation University of Barretos – UNIFEB (2013-2014)

Curriculum Development and Academic Committees

- Chair, Curriculum Revision Committee, B.S. Program in Environmental Management, Federal Institute of São Paulo (2015)
- Chair, Curriculum Development Committee, Environmental Technician Program, Federal Institute of São Paulo (2015-2016)
- Committee Member, Undergraduate Curriculum Committee (NDE), B.S. Program in Environmental Management, Federal Institute of São Paulo (2018-2024)
- Committee Member, Curriculum Revision Committee, Environmental Technician Program, Federal Institute of São Paulo (2017-2019)
- Substitute Member, Institutional Development Plan (PDI) Committee, Federal Institute of São Paulo (2017-2024)

University Committees

- Representative, Engineering Programs, Institutional Research Ethics Committee (CEP), Educational University of Barretos – UNIFEB (2012–2014)
- Chair, Election Committee for Program Coordinator, Environmental Management Program, Federal Institute of Sao Paulo – IFSP (2018)
- Chair, Election Committee for Academic Program Committees, Federal Institute of Sao Paulo – IFSP (2018)
- Chair, Election Committee for Environmental Technician Program Coordinator, Federal Institute of Sao Paulo – IFSP (2019)
- Committee Member, Student Retention and Success Committee, Federal Institute of Sao Paulo – IFSP (2015-2019)
- Reviewer, Technical Committee for Curriculum Review, Environmental Technician Program, Federal Institute of Sao Paulo – IFSP – Caraguatatuba Campus (2016)

Other Service

- Faculty Mentor, Florida Water Resources Conference (FWRC) Student Design Competition (2025)
- Faculty Mentor, WEFTEC National Student Design Competition (2025)
- Faculty Mentor, Environmental Engineering Capstone Design Projects, University of South Florida – USF (2025–2026)
- Undergraduate Research Advisor, Federal Institute of Sao Paulo – IFSP (2015-2024)

MISCELLANEOUS

Educational Innovation

- Developer of "Saneamento em Ação", an educational board game designed to support environmental sanitation education, including adaptations for deaf and hard-of-hearing students

International Research Experience

- Ph.D. Research Scholar, Autonomous University of Barcelona – UAB (2014-2015)

Research Areas

- Sustainable water and wastewater infrastructure
- Sludge treatment and biosolids management
- Biodrying process
- Nature-based sanitation systems
- Circular economy
- Resource recovery

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