

# LAURA SOARES O'GRADY

Piscataway, NJ 08854 – United States; +1 862 955 0510 – logrady@njtransit.com

## EDUCATION

**RUTGERS STATE UNIVERSITY OF NEW JERSEY, New Brunswick, USA**      **2018 – Expected Graduation Date: Oct. 2024**

*MS and PhD Candidate in Civil and Environmental Engineering (GPA: 4.0)*

*Leadership:* Graduate Student Organization Vice President

**UNICAMP – UNIVERSIDADE ESTADUAL DE CAMPINAS, Campinas, Brazil**

*BSc in Civil and Environmental Engineering*

*Leadership:* Teaching Assistant of the course “Logistics and Transportation Lab”

## PUBLICATIONS

### JOURNALS

- Soares, L. and Wang, H. (2023) Sustainability impact of photovoltaic noise barriers with different design configurations, *Transportation Research Part D*, 116, 103624.
- Soares, L. and Wang, H. (2022) A study on renewed perspectives of electrified road for wireless power transfer of electric vehicles, *Renewable and Sustainable Energy Reviews*, Volume 158 112110, ISSN 1364-0321, <https://doi.org/10.1016/j.rser.2022.112110>.
- Soares, L., and Wang, H. (2021). Economic Feasibility Analysis of Charging Infrastructure for Electric Ground Fleet in Airports. *Transportation Research Record*, 2675(12), 1–12. <https://doi.org/10.1177/03611981211033859>
- Liao, G., Soares, L., Wang, H. and Qi, K. (2021) Damage Evaluation of Poro-Elastic Road Surface with Low Polyurethane Content," *Journal of Testing and Evaluation* 49, no. 1: 134-146.
- Guo, L., Wang, H., Soares, L., and Brito, L. (2021) Multi-physics modelling of piezoelectric pavement system for energy harvesting under traffic loading. *International Journal of Pavement Engineering*, 1-15.
- Zhang, J., Wang, P., Wang, H., Soares, L., Pei, J., and Ge, J. (2021) Development and verification of integrated photoelectric system for noncontact detection of pavement ponding and freezing. *Structural Control Health Monitoring*, 28, 6.

### BOOKS

- Ghassemi, A., Soares, L., Wang, H. and Xi, Z. (2021) A Novel Mathematical Model for Infrastructure Planning of Dynamic Wireless Power Transfer Systems for Electric Vehicles. *Dynamic Wireless Power Transfer Systems In: Fathi, M., Zio, E., Pardalos, P.M. (eds) Handbook of Smart Energy Systems*. Springer, Cham.

### CONFERENCES

- Soares, L. and Wang, H. (2024) Life Cycle Cost Analysis for Overcoming Battery-Electric Bus Range Limitation using Public Transit Scheduling Data. *Transportation Research Board Annual Meeting TRB 2024 Presentation*.
- Soares, L. and Wang, H. (2023) Design Study and Potential Implementation of Photovoltaic Noise Barrier for Sustainable Highway. *Transportation Research Board Annual Meeting TRB 2023 Presentation*.
- Soares, L., Wang, H. and Venkitesa G. (2020) Energy Harvesting Performance of Highway Photovoltaic Noise Barrier. *International Conference on Applied Energy 2020*.
- Soares, L. (2019) Electrified Roads for Sustainable Infrastructure: Opportunities and Challenges. *Transportation Research Board Annual Meeting TRB 2020 Poster*. Best Presentations from Annual Interuniversity Symposium on Infrastructure Management 2019.

## HONORS AND AWARDS

- ITSNJ 2023 The Future of ITSNJ Award
- ITSNJ 2021 Outstanding Graduate Student Award
- Graduate Fellowship from School of Engineering
- Graduate Research Award from Federal Aviation Administration of the U.S. Transportation Department
- Best Presentation Award in the 15th Annual Interuniversity Symposium on Infrastructure Management
- NJDOT 2019 Outstanding University Student in Transportation Award
- Excellence Fellowship from School of Graduate Studies

## PROFESSIONAL EXPERIENCE

**NJ Transit, Newark, NJ** – Public transportation agency serving New Jersey, 11k+ employees.

**2024 - Current**

*Assistant Director of Facility Planning & Technology Integration*

**BURGER KING & POPEYES, São Paulo, Brazil** – Master Franchise of Burger King and Popeyes in Brazil with BRL 1.6Bi gross revenue, 12k+ employees, 12 years in operations, +700 restaurants.

*Procurement Coordinator* (Managed 5 analysts)

**2018**

*People Development Coordinator* (Managed 2 analysts)

**2017 – 2018**

*Leadership Development Program*

**2016**

## ADDITIONAL INFORMATION

**Languages:** Portuguese (native), English (fluent), Spanish (intermediate), German (basic)

**Informatics:** MS Office, AutoCad, Revit, Sketchup, Comsol, R, Ansys Maxwell, ArcGIS