





Agustin Guerra


Civil Engineer

 (858) 888 6716

 agustingu.github.io

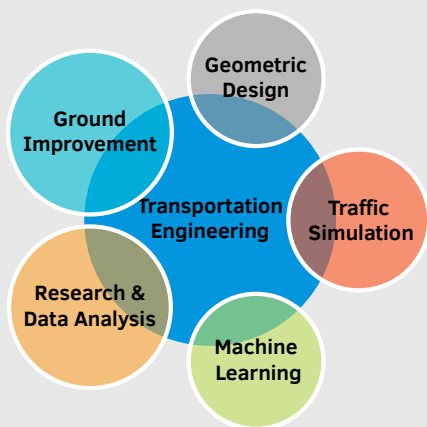
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 agustingu

Technical Skills

Overview



Software & Programming Skills

Beginner —————> Advance

AutoCAD C3D • VISSIM • Transmodeler

Python • R • \LaTeX • Infracore

GEOPACK • HCS • Slide Rockscience

Education

PhD., Civil Engineering

Specialization: Highway & Traffic

University of Florida

2019 - 2023 (Expected) | Florida, U.S.A

MSc., Civil Engineering (GPA: 3.83)

Specialization: Highway & Traffic

University of Kansas

2017 - 2019 | Kansas, U.S.A

BEng., Civil Engineering (GPA: 3.30)

Universidad Tecnológica de Panama

2008 - 2013 | Panama, Panama

Experience

Aug 2019 - Present Graduate Research Assistant

UFTI

- Focus on developing optimization algorithms for urban corridors considering Automated Vehicles capabilities
- Helps with the deployment of traffic control algorithms for real-world implementation
- Presents several talks, and posters related to optimization algorithms for Automated Vehicles
- Assists in the coordination for projects deliverable
- Assisted as a TA for TTE 6267: Traffic Flow Theory
- Serves as student representative at the Internal Steering Committee (ISC) at UFTI. Co-chair for the task force student-professional engagement. ITE Student chapter vice-president, 2021
- **Projects:** AVIAN.
- **Tools:** Python, NumPy, pandas, AMPL, CPLEX, VISSIM, Jupyter Lab, Github, R

May 2019 - Aug 2019 Highway & Traffic Consultant

WSP

- Provided safety assessments for geometric design, traffic studies, and developed geometric design proposals in the LAC region
- **Projects:** 4th Bridge over the Panama Canal, Maria Chiquita - Portobelo Corridor
- **Projects' Summary:** The first project, a cable-stayed bridge has an estimated construction amount of \$99.8 million. While the former was on the feasibility study stage, a 33 km of mountainous road
- **Tools:** AutoCAD Civil 3D, Infracore

Jul 2014 - Aug 2017 Highway Engineer

Louis Berger

- Coordinated activities of the design team and provided geometric design of highway projects in the LAC region (Honduras, Panama, Colombia, and Peru)
- **Projects:** Corredor Turistico La Barca - El Progreso - Tela, Panamerican Highway (Santiago -Vigui), Line 1 of the Panama Metro, Corredor Perimetral Oriente de Cundinamarca, Corredor Panama Norte
- **Projects' Summary:** The cumulative construction amount for all of these projects was about \$1.05 U.S billion. The infrastructures considered were mainly interchanges, roundabouts, intersections, and roads on both urban and rural setting
- **Tools:** AutoCAD Civil 3D

Jun 2014 - Nov 2012 Specialist Assistant

Louis Berger

- Assisted with geometric design, traffic signalization, slope stability analysis, and DTM development
- **Projects:** Slope Stabilization Studies 53 km, Hydroelectric Project Chan II, Amador Road Widening, MSE walls Design of Via Expresa Sur Interchanges, Coastal Beltway
- **Projects' Summary:** The cumulative construction amount for these projects was about \$1.3 U.S billion. The infrastructures considered were mainly mountainous roads, marine viaducts, and stabilization works
- **Tools:** Slide-Rockscience, AutoCAD Civil 3D, Mathcad

Awards


Aug 2017 - May 2019 Fulbright Scholarship


ECA


Awarded by the U.S embassy in Panama to complete a Master's Degree at the University of Kansas


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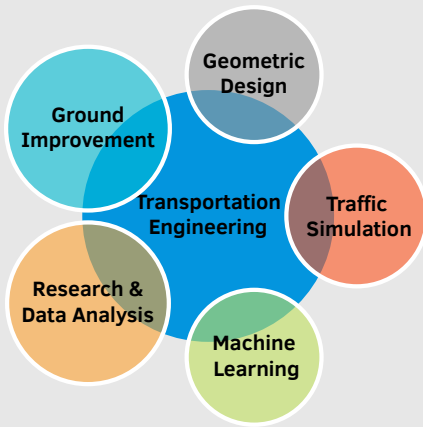
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Research

May 2018 - **MSc. Candidate**

University of Kansas

May 2019 **Thesis:** Modeling discretionary lane changing decisions for connected vehicles based on fuzzy logic

- Proposed a fuzzy logic model to assess driving behavior during discretionary lane change under a connected environment
- Performed data processing and statistical analysis
- **Tools:** SPSS, MiniSim, Driving Simulator

Social Service

2019 - Present **Gator ITE Student Chapter**

- Served with the Gator ITE Student Chapter on the Adopt a Highway Initiative by the ITE

2017 - 2019 **KU Fulbright Student Association**

- Worked with the Fulbright student chapters at Lawrence, KS assisting with several activities in the community

2013 - 2017 **Louis Berger**

- Worked with the Louis Berger green team in Panama planting trees. Initiative by the Environment Ministry in Panama

References

Aug 2019 - Present **Lily Elefteriadou PhD**
Director of the UF Transportation Institute

University of Florida

- Work Phone: (352) 294 7802
- Email: elefter@ce.ufl.edu

Nov 2012 - May 2017 **Gabriel Borrás**
Country Manager

WSP Panama

- Cell Phone: +507 6619-5580
- Email: gabriel.borras@wsp.com

Nov 2014 - May 2017 **Sofia Berger**
Senior Vice President, Advisory Services

WSP

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