





# Agustin Guerra


## Civil Engineer

 (858) 888 6716

 agustingu.github.io

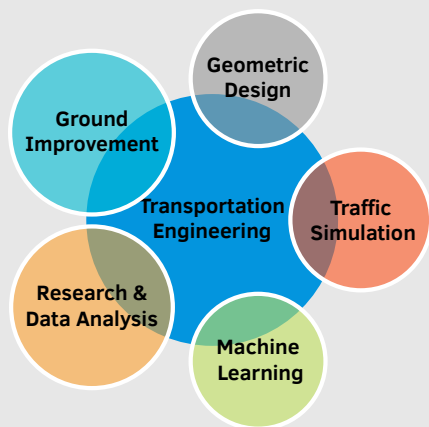
 agustinguerra@ufl.edu

 /in/agustin-guerra-h

 agustingu

## Technical Skills

### Overview



## Software & Programming Skills

Beginner —————> Advance

AutoCAD C3D • VISSIM • Transmodeler

Python • R •  $\text{\LaTeX}$  • Infracad

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

## Professional Profile

Highly motivated civil engineer with 5+ years of experience in the transportation industry. Committed to providing high-quality service focusing on innovation, safety, sustainability, and operational performance. Currently seeking internship opportunities

## 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:** 4<sup>th</sup> 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, Infracad

### 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 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


# Agustin Guerra


Civil Engineer

 (858) 888 6716

 agustingu.github.io

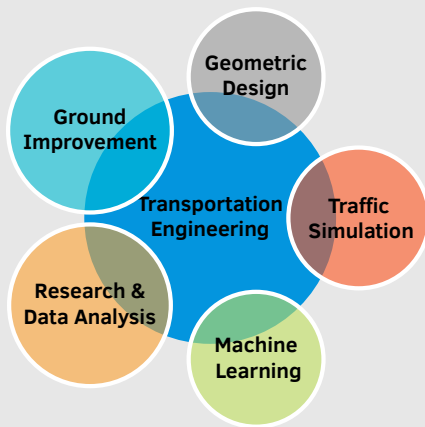
 agustinguerra@ufl.edu

 /in/agustin-guerra-h

 agustingu

## Technical Skills

### Overview



### Software & Programming Skills

*Beginner* —————> *Advance*

AutoCAD C3D • VISSIM • Transmodeler

Python • R •  $\text{\LaTeX}$  • Infraworks

GEOPACK • HCS • Slide Rocksience

## 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

## Awards

Aug 2017 - **Fulbright Scholarship**

ECA

May 2019 Awarded by the U.S embassy in Panama to complete a Master's Degree at the University of Kansas

## 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

University of Florida

#### Director of the UF Transportation Institute

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

Nov 2012 -  
May 2017

### Gabriel Borrás

WSP Panama

#### Country Manager

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

Nov 2014 -  
May 2017

### Sofia Berger

WSP

#### Senior Vice President, Advisory Services

- Email: sofia.berger@wsp.com