



# KEITH ANSHILO DIAZ

Research and Development Engineer

## PROFILE

### About me

Registered Civil Engineer  
 Filipino  
 Born on June 1996  
 Rodriguez, Rizal, Philippines  
 Keith Anshilo Diaz

### Areas of Interest

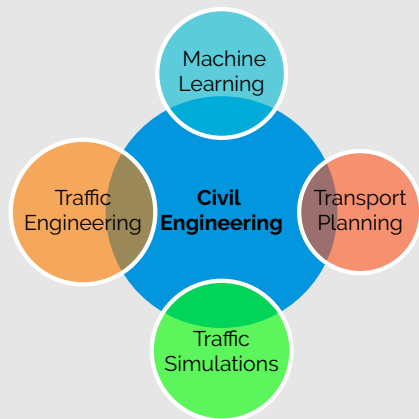
Intelligent Transportation Systems • Transportation and Traffic Engineering • Data Science

## SKILLS

### Languages

Filipino | English

### Specialization



### Programming



OS:

### Traffic Simulation and GIS Softwares



Also familiar with:  
VISSIM, CUBE and SYNCHRO

## EXPERIENCE

October 2019–April 2020

### Visiting Researcher

MOBILE SENSING LAB · UC Berkeley   
Researched about the integration of Artificial Intelligence and Traffic Control. Became a member of an open-source deep RL framework called FLOW



April 2018 - August 2019

### Research Fellow/Part-time Faculty member

TOMAS LAB · Mapua University   
Developed data-driven decision making platforms through integrating real-time data feeds in traffic simulations for model validation and calibration. Simultaneously, handled undergraduate courses such as Traffic and Highway Engineering, Soil Mechanics, and Theory of Structures.



June 2017–March 2018

### Design and Cost Engineer

EEI CORPORATION ·   
Structural Analysis and Cost Estimation



## EDUCATION

April 2018 - Present

### M.S. in Civil Engineering

MAPUA UNIVERSITY · Intramuros, Manila   
*Scholar, Philippine-California Advanced Research Institutes*  
*\*\*\*affiliated with research project called DARE (Data Analytics for Research and Education)*



July 2012 - February 2017

### B.S. in Civil Engineering

MAPUA UNIVERSITY · Intramuros, Manila



## PUBLICATIONS AND PRESENTATIONS

### Current Publications

**The Potential of New Data Sources in a Data-Driven Transportation, Operation, Management and Assessment System**  
2020 IEEE CONFERENCE ON TECHNOLOGIES FOR SUSTAINABILITY (SusTech) ·  
DOI: [10.1109/SusTech47890.2020.9150505](https://doi.org/10.1109/SusTech47890.2020.9150505)

### Adaptive Coordination Offsets for Signalized Arterial Intersections using Deep Reinforcement Learning

PRE-PRINT AVAILABLE AT: <https://arxiv.org/abs/2008.02691> ·  
Currently under peer review (IEEE Transactions on ITS)

### Presentations

#### Innovation in Transportation: Role of Big Data in Transport Planning

PICE CPD SEMINAR SERIES, DAVIES PAINTS PHILIPPINES, QUEZON CITY ·  
October 21, 2018

#### Introduction to Transportation Engineering

TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES, QUEZON CITY ·  
October 2, 2019

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