AULIA RAHMAN

Phone: (+62) 812-6794-9490   Central Residence No. 3A
aulia.r@mail.ugm.ac.id   Batam, Riau Islands 29444

A recent Master of Transportation degree seeking a PhD under Mr. Robin Lovelace's supervision. Expertise in Python, SQL, and geospatial modeling, with experience in statistical analysis and modeling. Strong problem-solving skills and experience with large datasets using tools such as Tableau.

EDUCATION

-	Pacmann Academy, AI and ML Engineering (non-degree)	May 2022 – Dec 2023
Ir.	Universitas Gadjah Mada, Engineering Profession GPA of 3.36/4.00.	Feb 2023 – Jun 2023
M.Sc	Universitas Gadjah Mada, Transportation Thesis: "Development of Open Source Traffic Assignment Library". Finishing 24 months program in 18 months. GPA of 3.68/4.00.	Aug 2021 – Feb 2023
B.Eng	Universitas Gadjah Mada, Civil Engineering Thesis: " Evaluating Road Networks Performance: Capacity Restraint Method " GPA of 3.04/4.00.	Aug 2016 – July 2020

EXPERIENCE

Indonesia's Directorate General of Highways, Indonesia   Jan 2023 to Now
Project Officer, Preparation of road and bridge feasibility study documents for Central Java and Yogyakarta provinces.
- Modelling inter province transportation network and urban network using PTV VISUM and PTV VISSIM.
- Modelling level crossing betweel railway and road network using PTV VISSIM.
- Cost-benefit analysis of alternative roads and solutions to minimize cost and traffic accidents.

Indonesia's Directorate General of Highways, Indonesia   Jan 2022 to Dec 2022
Project Officer, Preparation of road and bridge feasibility study documents for Central Java and Yogyakarta provinces.
- Modelling inter province transportation network using PTV VISUM.
- Cost-benefit analysis of alternative roads to minimize cost and traffic accidents.

Indonesia's Directorate General of Highways, Indonesia   Jan 2021 to Dec 2021
Project Officer, Feasibility study of inter region road network between middle and southern Java Island.
- Modelling inter province road network using PTV VISUM and PTV VISSIM.

- Proposing alternative roads and the cost-benefit analysis of each alternatives

Indonesia's Directorate General of Highways, Indonesia   Jan 2020 to Dec 2020
Project Officer, Development of Urban Road Network Plans in Balikpapan, Mataram, Yogyakarta and Tasikmalaya.
- Modelling urban road network using PTV VISUM and PTV VISSIM.
- Proposing solutions for sustainable transportation network with various scenarios.

PUBLICATIONS

Conference Papers

(Peer-Reviewed)

Rahman, A.. and Irawan, M.Z., "Evaluating Road Networks Performance: Capacity Restraint Method," 2020, J. Phys.: Conf. Ser. 1655 012099.

Rahman, A., Irawan, M.Z. and Amrozi, M.R.F, ".A New Approach to Estimating Link Performance on Indonesian Uban Roads: Deriving the BPR 1964 Function," Proceedings of The 4th International Conference on Transportation Infrastructure and Sustainable Development (TISDIC 2023), Aug. 26-28, 2023, PAPERID-03.

LANGUAGES

English: Professional Working Proficiency. IELTS 7.5 (C1 English Level).

Indonesian: Native

COMPUTER SKILLS

Programming: Python, MySQL.

Geospatial: Geopandas, NetworkX, OSMnx.

Applications: PTV VISUM, PTV VISSIM, SATURN.

Data: Pandas, Numpy, Ms Excel, Google Spreadsheets.

Visualisation: MatPlotLib, Tableau.