

Tutut Indriaty

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EDUCATION

University of Pennsylvania, Weitzman School of Design , Philadelphia, PA	August 2024 - May 2025
Master of Urban Spatial Analytics	GPA: 3.97/4.0
Relevant Coursework: Public Policy Analytics, Javascript Programming, Geospatial & Cloud Computing, Transportation Planning	
Bandung Institute of Technology , Bandung, Indonesia	July 2014 – October 2018
Bachelor of Science in Urban and Regional Planning	GPA: 3.17/4.0
Relevant Coursework: Spatial Pattern and Structure, Planning Information System, Urban Planning Studio, Urban Infrastructure	

TECHNICAL SKILLS

Project Management & Workflow: Agile methods, task tracking, version control, documentation management
Collaboration & Visualization Tools: GitHub, Microsoft Teams, Miro
Programming & Data Tools: R, Python, SQL, JavaScript (HTML, CSS)
Geospatial & Analytics Platforms: ArcGIS, QGIS, PostGIS, GeoDa, Google Cloud Platform, Postman, Firebase
Modeling & Analytical Methods: Regression, Correlation, Time Series, Predictive Modeling, Clustering

PROFESSIONAL EXPERIENCE (1/2)

Institute for Transportation and Development Policy (ITDP) Indonesia , Jakarta, Indonesia	July - Oct 2025
<i>Transport Intern</i>	
- Led end-to-end preparation of EV charging and logistics hub datasets, including cleaning, validation, and metadata documentation to ensure interoperability and reproducibility. - Conducted comparative affordability benchmarking across 10+ countries and spatial analysis of logistic hubs-EV charging accessibility to identify underserved areas and recommend charging infrastructure planning. - Interviewed and coordinated with PLN and KOLEKSI, integrated stakeholder insights into policy recommendations and drafted the preliminary EV Charging Infrastructure Report.	
Ministry of Public Works and Housing , Bali and South Tangerang, Indonesia	
<i>Land Acquisition Analyst</i>	April 2022 – July 2024
- Led geospatial analysis and survey for 1,200+ land parcels, achieved 99% data accuracy, streamlined valuation and community consultation. - Reviewed appraisal tender budgets and documentation to ensure efficiency and compliance with project standards. - Developed and delivered progress presentations and mapping outputs to 20+ stakeholders including regional agencies and the Governor of Bali to enhance coordination and transparency.	
Ministry of Public Works and Housing , Jakarta, Indonesia	
<i>Urban and Regional Planning Specialist/Individual Consultant</i>	Jan – Mar 2022; Jul 2020 – Aug 2021
- Led end-to-end planning cycle for 10+ regional and new-city infrastructure programs, from data collection and survey design to feasibility review and concept drafting. - Produced regulatory and policy analyses integrating infrastructure projects with spatial, environmental, and socio-economic plans for the National Infrastructure Mid-Term Masterplan. - Represented the ministry in coordinating 20+ stakeholders across FGD and Rakorbangwil forums, ensured alignment of local priorities with central funding. - Prepared task plans, budgets, and KAKs, ensuring compliance with project TORs and efficient use of survey resources. - Authored two policy briefs with spatial analytics, field findings, & policy recommendation to guide investment priorities.	

PROFESSIONAL EXPERIENCE (2/2)

PT Studio Cilaki 45 Urban Planning Consultant Firm, Bandung, Indonesia

Urban Planning Assistant

October – December 2021

- Co-produced project management deliverables for Bali farmland conversion control study, coordinated field surveys, data verification, and documentation to improve spatial data accuracy for WebGIS.
- Co-arranged and facilitated stakeholder meetings and FGDs with local agencies, mapping problems and policies to improve farmland conversion control policy in Bali.
- Contributed to technical reports and presentation materials for policy discussions and client workshops.

DKI Jakarta Transport Agency, Jakarta, Indonesia

GIS Junior Analyst

April 2019 – July 2020

- Served as the sole GIS analyst in the department, managed spatial data processing, digitization, and visualization of 200+ Jakarta road segments, completed missing datasets for traffic policy and KPI reporting.
- Created GeoJSON datasets and interactive mapping tools that improved citywide traffic monitoring and urban mobility planning across city departments.
- Conducted data cleaning and validation on freight transport datasets to enhance logistics policy accuracy and reliability.
- Trained and guided 10 city KPI administrators on geospatial data collection and digitization, strengthening institutional data quality and capacity.

PROFESSIONAL & ACADEMIC PROJECTS

Passenger Load Intelligence System (PLIS) on Transjabodetabek Buses (Jakarta, Indonesia): *Javascript, R* ([link](#))

2025

- Led development of **Indonesia's first AI-powered passenger monitoring dashboard** for Transjabodetabek buses, integrating CCTV detections of hundreds of daily movements.
- Co-designed data architecture and developed encrypted API integration (Postman) with full documentation to ensure secure, interoperable data exchange within Dishub DKI.
- Enhanced 100% transparency and subsidy planning through automated, cross-agency monitoring between Dishub DKI and PT Transjakarta.

Dynamically-Priced Parking Management System in El Paso, Texas: *R, JavaScript* ([link](#), [R markdown](#), [presentation](#))

2025

- Co-developed an elasticity-based demand model and interactive pricing dashboard to support El Paso's shift toward data-driven, dynamic parking policy.
- As Research Lead, led and integrated literature and policy review on parking management system in 5+ cities in the U.S.
- Applied Agile methodology with weekly sprints, coordinating between team members and El Paso City Planning staff to iteratively refine dashboard features and analytics outputs.
- Aggregated and anonymized hundreds of transaction records to protect privacy while ensuring accuracy for policy simulation and revenue forecasting.

Land Acquisition Process Dashboard for Toll Road: *ArcGIS, JavaScript* ([link](#))

2024

- Conceptualized and prototyped a new dashboard model to address transparency and tracking gaps identified during prior land acquisition work.
- Built an interactive, UX-focused map to visualize parcel status and streamline coordination among project offices, consultants, and affected communities.
- The prototype was adopted internally as a reference design for future national land acquisition and grievance-monitoring systems.

Additional projects available at tututind.github.io/portfolio