Saeid Adli

PhD Candidate in Planning, MUrbRegPlan, BUrbPlan

Senior Transportation Planner / GIS Lead

Contact

022 3443551
saeid.adli@gmail.com
spatialanalyst.ir

Qualifications

PhD Candidate in Planning
University of Auckland, ongoing

Master of Urban/Regional
Planning
University of Tehran, Iran, 2009

Bachelor of Urban Planning
University of Mazandaran, Iran,
2004

High School Diploma
Alborz High School, Iran, 1999

Affiliations

Member of the IPENZ
Transportation Group
Since 2013

Member of the NZIS
Since 2015

Awards

Second prize in the Poster
Competition, Exposure
(Postgraduate Research
Exposition)
University of Auckland, 2011

Saeid is a Degree and Masters qualified Urban Transport Planner with over 14 years of professional experience in urban, transport and regional planning in Iran, New Zealand and Australia. He has worked for various multi-disciplinary consultancies in Iran before he moved to New Zealand in 2011. Saeid joined MRCagney in 2011 as a Transport Planner where he is currently employed.

Saeid has a general background in preparing master plans considering a wide range of complex socio-economic, transport, and land use issues that impact on the built environment. Over the past two years, Saeid has been involved in land use and transport planning studies for regional government clients in New Zealand and Australia. Most notably, Saeid assisted with the design of Auckland's new public transport network.

Saeid is an expert in the application of GIS in land use planning and transport planning. Saeid's advanced urban design theories and spatial design technologies underpin his skilled understanding of development processes, transport, land use, and consultation to ensure innovative results.

Saeid's current involvement is in a project seeking utilisation of Google transit feed combined with electronic ticketing data in transportation planning. With the help of GIS, these two databases can become a powerful tool to analyse transportation systems which is crucial for transportation planning. Saeid is an expert in ESRI ArcGIS and also has experience using QGIS, Civil3D and AutoCAD.

Upon commencement of employment with MRCagney, there wasn't a GIS team however throughout his time with MRCagney, Saied has grown a GIS team whom is also responsible for.

Expertise

- Geospatial information system
- Transportation Data Analysis: Google Transit Feed
- Transportation Data Analysis: Electronic ticketing
- Transportation Modelling
- Transit Oriented Development and Transit Precinct Planning
- Integrated Transport and Urban Planning
- Programming (Python, Visual Basic, VBA)
- Software packages (MS Office, Adobe Suite, ArcGIS, QGIS)

Career History

2012 – present	Senior Transportation Planner / GIS Lead, MRCagney Pty Ltd, Auckland
2012 – present	Teacher's assistant at University of Auckland, Auckland
2010 – 2011	Senior Planner & Team Leader (Planning Group), the Housing Foundation of Iran, Tehran, Iran
2007 – 2010	Senior Planner & Team Leader (GIS Group), Pardaraz Consulting Engineers, Tehran, Iran
2006 – 2007	Urban Planner / GIS Analyst, Zaveh Consulting Engineers, Tehran, Iran
2003 – 2004	Urban Planner / GIS Analyst, ArmanShahr Consulting Engineers

Selected Project Experience

Transportation Planning

- **Development Capacity Analysis and Market Summaries (Housing New Zealand 2017)**

  Housing New Zealand Corporation (HNZC) is in discussions with the Ministry of Social Development (MSD) about increasing the supply of social housing in some markets. Saeid was a lead analyst to undertake development capacity analysis and preparing market summarises to inform HNZ discussion with MSD.

- **Identify the key drivers of cycle demand and develop a modelling tool for prioritising cycle network expansions (Auckland Transport 2016)**

  Saeid was lead planner/analyst on cycling network planning project for Auckland Transport. The purpose of this project is to provide a conceptual framework for identifying and communicating the benefits of cycle network investment, including investments in higher-quality facilities. This will address the key determinants of cycle network demand and how investment can respond to them. Additionally, an ArcGIS-based model for prioritising between alternative cycle network investments or packages of investments is developed based on the different levels of accessibility that they can deliver (i.e. the potential size of the "market" opened up by new cycling investments).

- **Sydney Airport and Precinct Transit Network (Transport for NSW 2016)**

  Saeid was lead planner/analyst on Airport and Precinct Transit Network project. Saeid's main responsibility was gaining the necessary understanding of the existing transport networks in the study area, their current performance, issues and committed short-term improvements. Additionally, an understanding of the likely future state of the network will be developed based on a review of proposed changes to both land use and the transport network.

- **Auckland Light Rail Project (Auckland Transport, Auckland 2015-2016)**

  Saeid was lead planner/analyst on the network planning work stream of the Auckland Light Rail project, selecting existing major bus corridors for upgrading to light rail rapid transit. The purpose of this project is to improve network operational efficiency, increase network utility and ridership, and to relieve capacity constraints at city centre bus corridors and termini. Network development was based on the assessment of existing ridership and travel demands through ticketing data; interrogation of model projections; and full integration with existing and planned bus, ferry and heavy rail networks. This process required the application of sound network design principles to create a network that can deliver fast and reliable trips, good passenger experience, minimised operational expenditure and the optimal return on capital investment.

- **Benchmarking Auckland PT accessibility (Auckland Council, Auckland, New Zealand, 2015) - Ongoing**

  MRCagney is currently conducting a comparative study of accessibility in Auckland, Sydney, Brisbane, and Vancouver. The main objective is to benchmark the distribution of transit-based and car-based accessibility. As technical lead for this project, Saeid has developed a model of car and transport accessibility based on open data (GTFS, Census and OSM) using Python scripting for ArcGIS.

- **CRL Station Area analysis (Auckland Transport, Auckland, New Zealand, 2015) - Ongoing**

  This project is designed to assess the accessibility of current bus rapid transit stops, train stations, and ferry terminals in the Auckland Region and assess each in terms of both customer and service provider perspectives. The study includes a systematic evaluation of walking and cycle access to each station and ranks the stations on their potential for patronage growth from these two groups. Saeid is responsible for conducting a GIS analysis based upon these two major tasks.

- **Regional Passenger Transport Plan (RPTP) (Auckland Transport, Auckland, New Zealand, 2015)**

  Auckland Transport (AT) selected MRCagney to revise maps showing the proposed New Network (NN) bus network for the Auckland Region in 2018 and 2025. These maps will focus on highlighting the differences in bus frequencies by corridor as proposed for the NN.

Saeid was responsible for generating segment-based frequencies of the current and new networks.

- **Bus Technology Review (Auckland Transport, Auckland, New Zealand, 2014)**

  For this study, MRCagney was responsible for reviewing the current state of modern bus technologies and commenting on their suitability for deployment in the context of Auckland. The study included a review of costs and benefits of various "clean" bus technologies. Saeid used Python scripting to create a noise level model of selected streets based on GTFS data for three bus fleet scenarios, including diesel, hybrid and electric buses.

- **Services and Infrastructure Evaluation Framework (SIEF) Review (TransLink, Brisbane, Australia, 2014)**

  In this study, MRCagney was commissioned by TransLink to review and extend the SIEF, including a proposed "value for money" (VFM) indicator that had been proposed to measure the performance of public transport in South East Queensland (SEQ). Saeid was responsible for generating an origin-destination matrix of all PT trips made in SEQ, and measuring the equivalent driving times and distances for making the same trips by automobile. He was also responsible for mapping the VFM measure.

- **Integrated Transport Programme (ITP) Modelling Review (Auckland Transport, Auckland, New Zealand, 2013)**

  MRCagney was responsible for reviewing the modelling used for ITP scenarios, in order to identify inconsistencies, issues and items for further investigation. Saeid was responsible for generating plots of model outputs using GIS.

- **Albany to Henderson Bus Corridor (Auckland Transport, Auckland, New Zealand, 2013)**

  Saeid was responsible for converting CAD designs into GIS geo-databases for this study, whereby MRCagney undertook a feasibility study for a Henderson to Albany Bus Rapid Transit Corridor. The study included estimating land acquisition prices based on proposed design lines and land improvement information from Auckland Council.

Strategic & Long-Term Network Planning

- **Journey Planner (Auckland Transport, 2013)**

  MRCagney is developing a journey planner as a consultation tool that enables people to compare the new and old transit network in Auckland, using an interactive GIS website. Saeid is responsible for data cleaning and maintaining data compatibility of the current and proposed network.

- **Translink SEQ Network Review (Brisbane, Australia, 2013)**

  The Minister for Transport and Main Roads announced a review of South East Queensland's bus network to improve service reliability, affordability and frequency, in accordance with the new Queensland government priorities. Saeid provided GIS analysis of land use,

demographics and changes to the network as well as providing mapping support.

- **Auckland Public Transport Network Plan (Auckland Transport, Auckland, New Zealand, 2012)**

  MRCagney led a "clean-slate" redesign of Auckland's bus, rail and ferry system with the goal of developing a single integrated network to deliver an efficient, effective and dependable public transport system. Saeid provided GIS analysis of land use, demographics and changes to the network as well as mapping support for this project.

- **affordability.org.nz**

  Traditional measures of housing affordability are expressed solely as a function of housing cost and income. affordability.org.nz quantitatively examines intrametropolitan combined housing and transport affordability in Auckland, New Zealand, inspired in part by the article "Housing and transport expenditure: Sociospatial indicators of affordability in Auckland" by K. Mattingly and J. Morrissey. Saeid was responsible to develop the methodology and generate underlying GIS data from Auckland 2013 Census and Auckland open street map data

- **transitflow.net**

  The open data in general transit feed specifications (TFS) format hidden under the hood of trip planner software (such as google map) can be used to simulate transit network for transport planning purposes. transitflow.net utilizes the GTFS to map to draw the transit flow on Auckland, New Zealand. Saeid was responsible to develop the methodology, to convert and fix current Auckland's GTFS data and generate the GIS database for the website in GeoJSON format.

Transportation Planning Products

Selected Publications

- "Right to the city: Applying justice tests to public transport investments." Transport Policy 66 (2018): 56-65.

- "Public transportation accessibility: Comparing Auckland, Brisbane, Perth, and Vancouver", Australasian Transport Research Forum 2017, (ATRF), 2017

- "A transport accessibility assessment framework for the RMA", New Zealand Planning Institute Conference 2016, (NZPA), 2016

- "Location-specific evaluation of noise and emissions of the public transport systems", ESRI Auckland Regional Conference 2015, (ESRI), 2015.

- "Better bus fleets for New Zealand: Evaluating costs and trade-offs", World Class Transport: Smarter, Stronger, Safer, (IPENZ), 2015

- "Urban Form and Accessibility to Rail Transit Stations: A Case Study of Auckland", International Seminar of Urban Form, (ISUF), 2014

- "Identifying the Impacts of suburban Rail Transit Stations on surrounding urban form", International Seminar of Urban Form, (ISUF), 2013

- "Allocation of building and structure factor effective in old fabrics vulnerability with fuzzy logic and GIS." Journal of Fine Arts (Tehran University) 42: 27-36, 2008. (This article has been indexed in Ulrich's Periodical Directory.)