Hussein Mahfouz

Transport Researcher

Cairo, Egypt

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Education

University College London
London, UK

MSc (Distinction) in Smart Cities and Urban Analytics — *Sep. 2019 - Aug. 2020*

- Studied many aspects of quantitative geography, network analysis, and statistics.
- Dissertation on prioritizing road segments for dedicating cycling infrastructure [github link].

The American University in Cairo
Cairo, Egypt

BSc (High Honors) in Construction Engineering — *Sep. 2011 - Jun. 2016*

- Focused on Structural Engineering and Project Management.

Work Experience

Transport for Cairo
Cairo, Egypt

Research Associate — *Sep. 2018 - Aug. 2019 / Sep. 2020 - Now*

- Worked on the WB funded 'Greater Cairo Region Mobility Assessment and Public Transport Improvement Study' (MAPTIS). Tasks included drafting a sampling strategy for data collection, data monitoring and validation, conducting an employment accessibility analysis, and report writing.
- Developing and maintaining software to convert transit GIS data to GTFS feeds.
- Contributed in a research capacity towards a bus study in Greater Cairo.
- In charge of fieldwork for mapping entire formal and informal public transport networks of the Greater Cairo Region.

Access to Knowledge for Development Center
Cairo, Egypt

Research Assistant — *Mar. 2018 - Sep. 2018*

- Carried out research on informal transportation on Cairo's Ring Road.
- Working on gaining insights into transportation sector through data-driven research.

UN-Habitat
Cairo, Egypt

Intern — *Jul. 2016 - Dec. 2016*

- Worked on the mobility program which supported the government in shifting towards an integrated transportation system. Proposed solutions included a BRT system, bike infrastructure and improved commuting information.
- Worked on the Land Readjustment project which provided inclusive solutions to the issue of urban sprawl on agricultural land.

Technical Skills

Programming Languages: Python, R, Javascript (Basic).

Markup Languages: CSS, HTML, LaTeX, RMarkdown.

Spatial Analysis and Cartography: R, QGIS.

Databases: PostgreSQL/PostGIS, MySQL, dbplyr.

Transport Related Data Standards: GTFS.

Publications

Multimodal network planning, identification of high capacity bus corridor and park and ride facilities in the Greater Cairo Region
Report

World Bank Report — *08, 2019*

- Hegazy, M., Kalila, A., **Mahfouz, H.** (2019). "Multimodal Network Planning, Identification of High Capacity Bus Corridor and Park and Ride Facilities." World Bank Group.

Languages

Arabic: Mother Tongue.

English: Mother Tongue.

French: Basic.