

Joshua Fabian

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EXPERIENCE

- **MBTA, Boston MA—Transit Data Program Manager** July 2017 – Present
 - Contractor within the Customer Technology Department (CTD), serving in the Transit Data team and formerly on the Glides team
 - Oversee and maintain the MBTA's public-facing schedule data, coordinating the integration of short-term and seasonal service change data, between upstream schedulers, scheduling software, and downstream consumers such as MBTA.com
 - Manage the addition of new features to the public-facing data stack (GTFS) in collaboration with internal and external data users' needs
 - Manage relationships with an external predictions vendor and the Commuter Rail operator in order to advance technology and data initiatives, and to ensure they meet MBTA requirements and standards
 - Provide subject matter expertise and support to help department staff understand how work interfaces in with service operations and ultimately the rider experience
 - Have supervised interns and overseen efforts to survey station attributes, determine bus stop accessibility, and publish improved station and facilities data
 - Have worked with Engineering and Maintenance personnel to coordinate and assist in the upgrade of vehicle tracking throughout the Green Line
- **Washington Metropolitan Area Transit Authority, Washington DC—Intern** January 2015
 - Office of Long-Range Regional Planning
 - Reviewed planning documents and estimated future environmental effects from multiple land-use and transit scenarios
- **Imperial College London, London UK—Visiting researcher** Summer 2014
 - Transport Risk Management Centre, Centre for Transport Studies (Dr Arnab Majumdar)
 - Created model to determine indirect costs of safety-sensitive rail incidents
 - Led interview with rail operator leaders to create incident response diagrams
- **MIT Media Lab, Cambridge MA—Undergraduate researcher** 2013 – 2014
 - CityScope, Changing Places group (Prof Kent Larson)
 - Researched projection mapping and modular, rapid-prototyping in urban design, enhancing accessibility for policy-makers and project stakeholders
 - Assisted with live prototype at Autodesk University 2014

EDUCATION

- **Massachusetts Institute of Technology, Cambridge MA** 2011 – 2015
 - Bachelor of Science in Civil Engineering
 - Minor in Urban Studies and Planning
- **Massachusetts Institute of Technology, Cambridge MA** 2015 – 2017
 - Master of Science in Transportation, research assistant in the MIT Transit Lab
 - Investigated real-time control of rapid transit using vehicle location and fare data in an agent and event-based simulation environment
 - Implemented a pilot of a computer-based dispatching decision-support tool for MBTA Green Line, increasing headway regularity by 40%

SKILLS

- *Administrative:* Microsoft 365, Notion, Tableau, Miro, Airtable, Appcues
- *Programming:* Java, Python, Splunk, Processing, PostgreSQL, R, MATLAB, HTML, CSS, JavaScript
- *Visual:* Adobe Photoshop, Lightroom, Illustrator, and Premiere, Derivative TouchDesigner, GIMP, Final Cut Pro
- *Mapping and transportation modeling:* ArcGIS, QGIS, Caliper TransCAD, Bentley CUBE, Java