Spatial Mismatch in the DMV

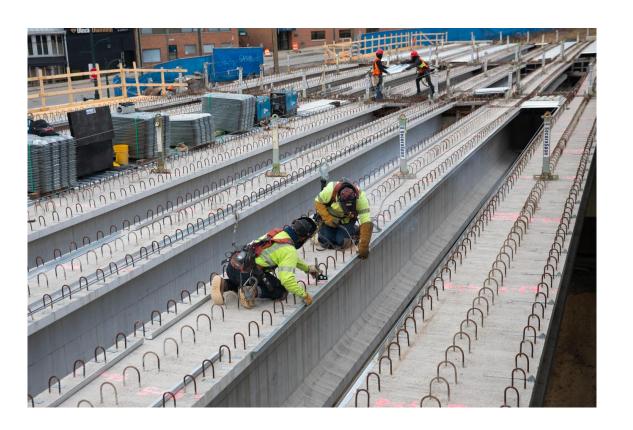
Presented by: Scott Brown, Hannah Hill, Peyton Weber

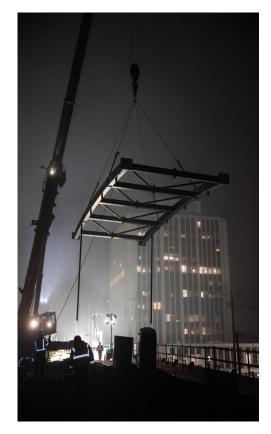
Background and Motivation

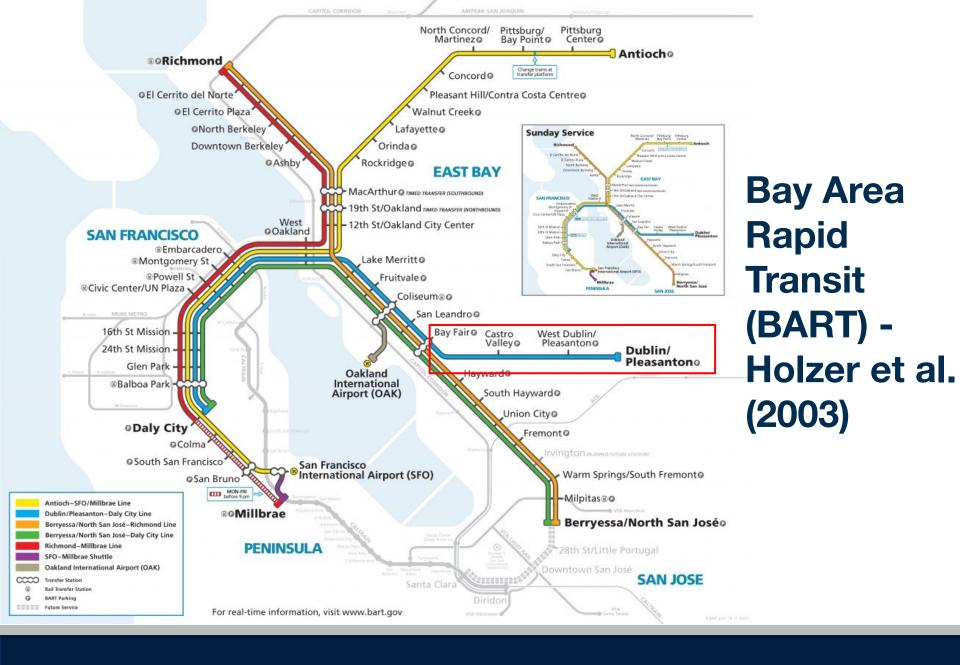
Waynesboro Hancock Hagerstown Berkeley Westminster In many cities, low-income residents live Havre de Grace Bel Air MARYLAND far from available jobs, and employers Owings Mills Towson Ballenger Creek can't find people to fill open positions. Baltimore Columbia Economists call this "spatial mismatch" - a Germantown Glen Burnie Leesburg Rockville Severna Park mismatch between where jobs are Silver Spring Annapolis located and where job seekers live, which Washington can cause high unemployment rates and Alexandria Easton Fort Washington Chesapeake lead to longer spells of joblessness. Lake Ridge Beach Dale City Choptank River Waldorf Cambridge

Native Hawaiian/Pacific Islander American Indian/Alaskan Native

Problem Statement - Market Failure







BART Spatial Mismatch - East Bay

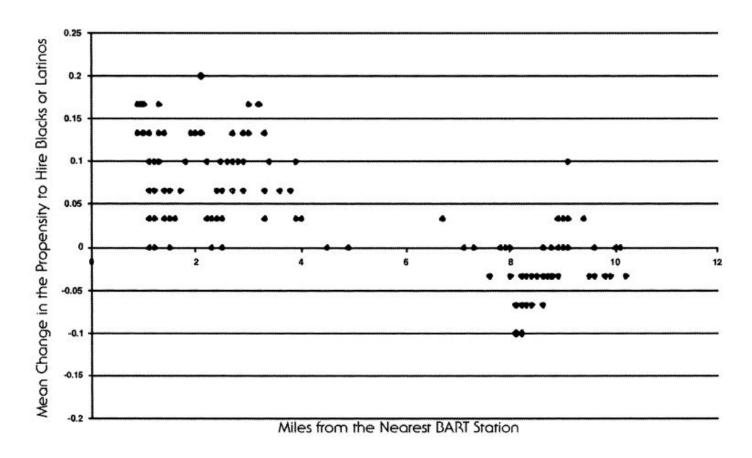


Figure 4. Scatter plots of the changes in the variable indicating that the last worker hired is either black or Latino against distance from the BART station.

Source: Holzer et al. (2003)

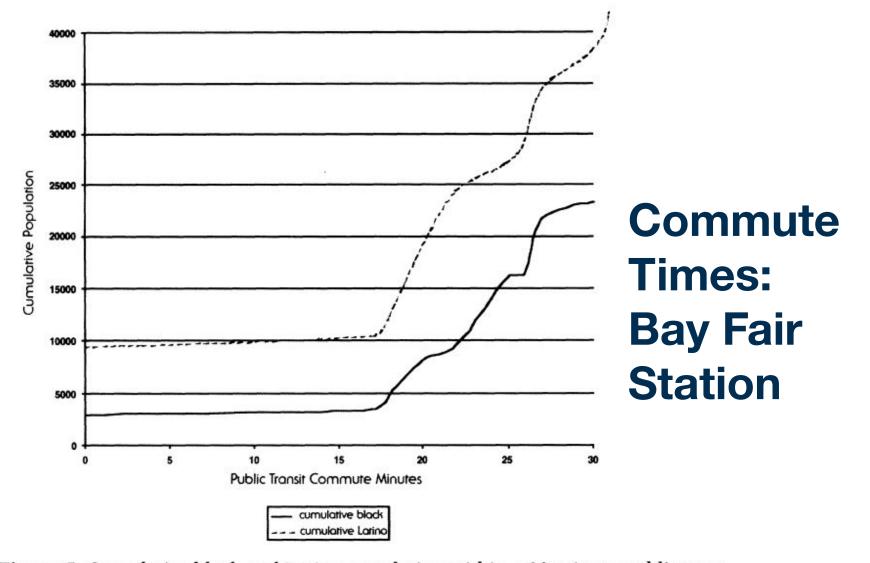
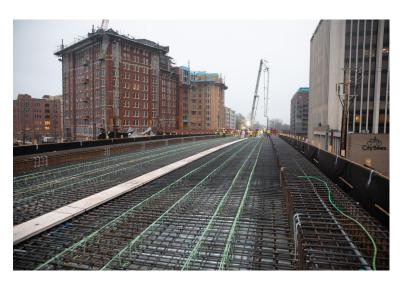


Figure 5. Cumulative black and Latino population within a 20-minute public transit commute of the Bay Fair station.

Source: Holzer et al. (2003)

Experimental Design





Purple Line will open 4½ years late and cost \$1.4 billion more to complete, state says

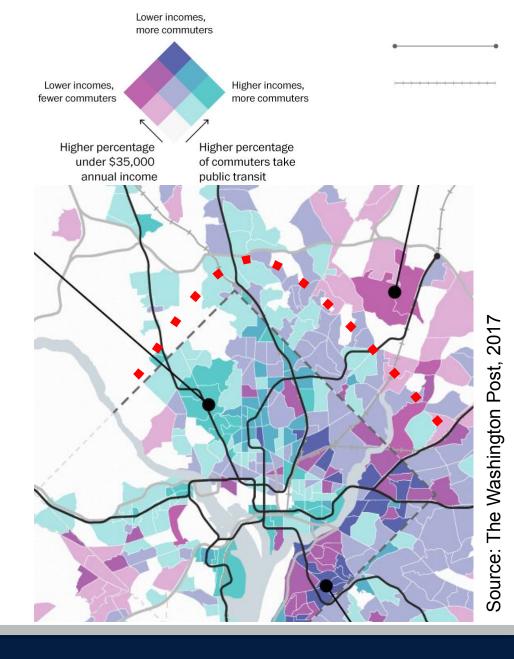
Maryland transit officials say the Purple Line will carry passengers in fall 2026 if a new construction contractor begins work this spring.



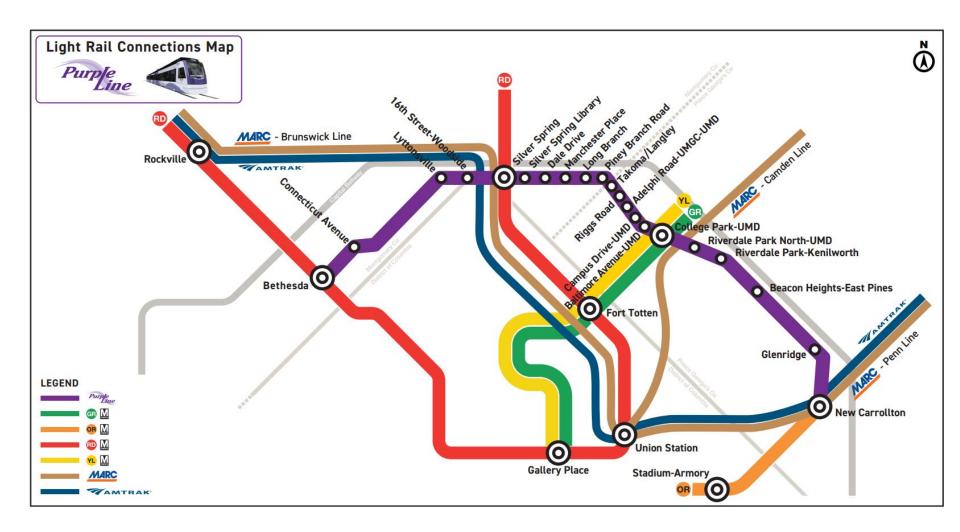
By Katherine Shaver

Updated January 12, 2022 at 7:25 p.m. EST | Published January 12, 2022 at 3:56 p.m. EST

Baseline Characteristics of the Populations of Interest

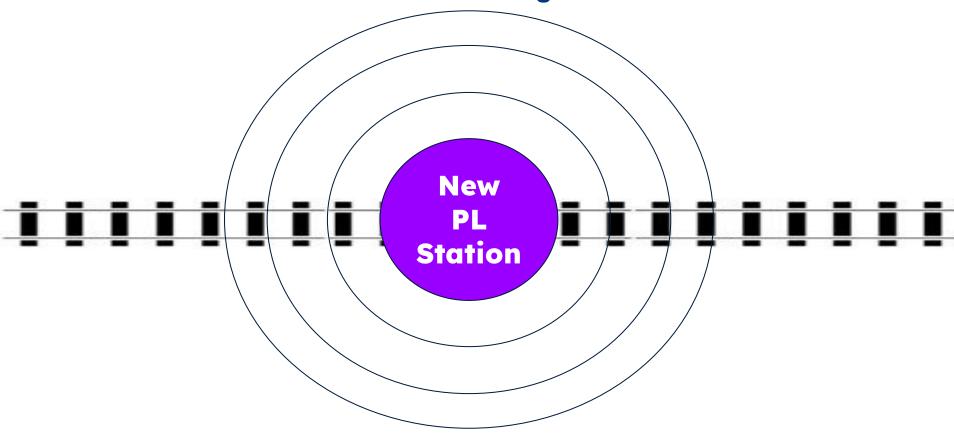


Empirical Analysis: Hiring Before & After Purple Line



Research Question & Implementation

"People who get access to metro receive gains that others do not – what are the size of those gains?"



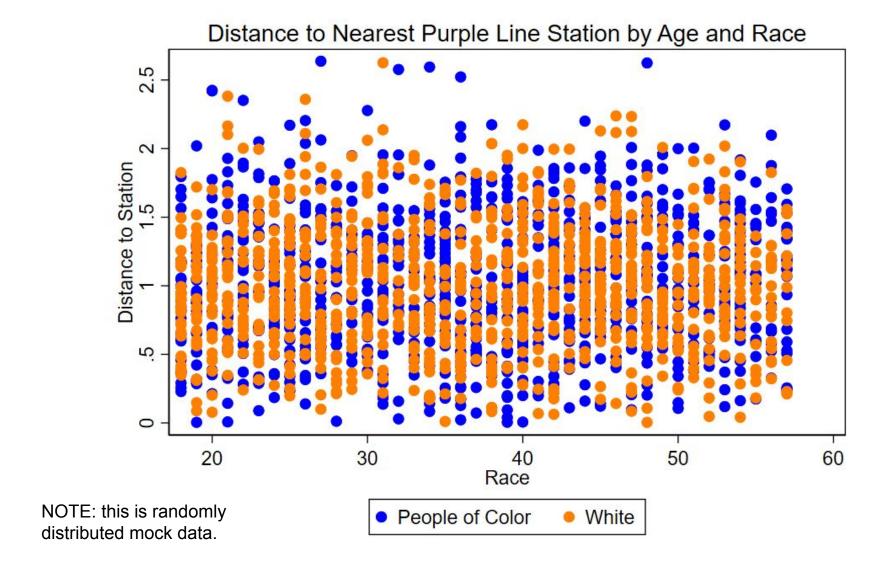
Treatment exposure: how close is the person to a new Metro station?

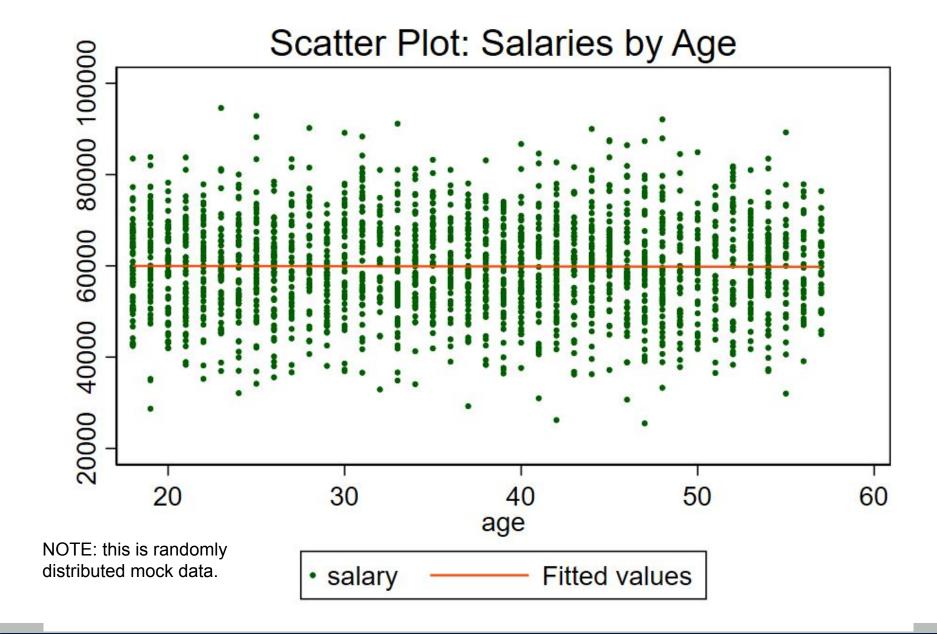
Data, Enrollment Criteria, and Assignment Protocol

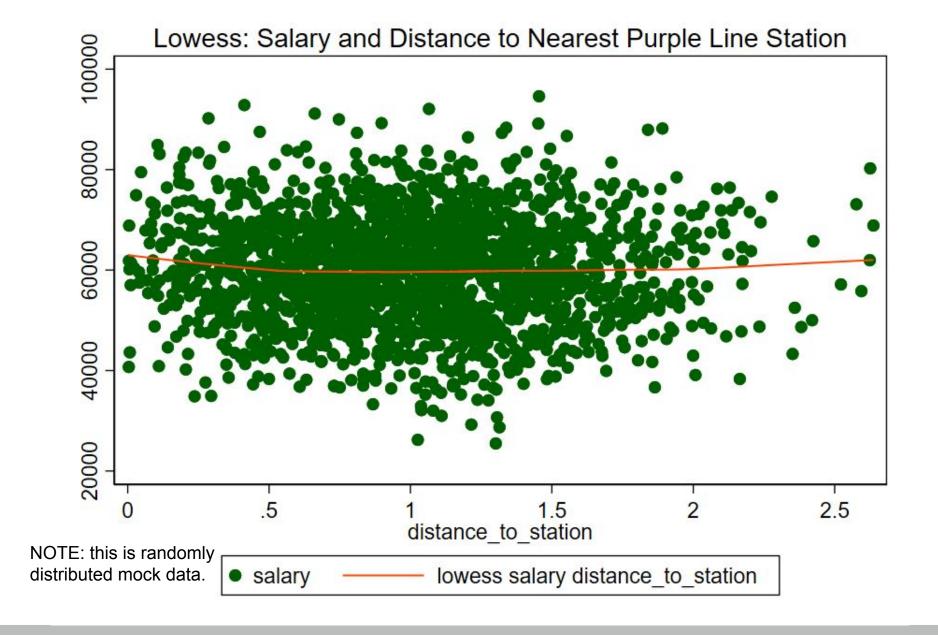












Research Limitations



TRANSPORTATION

Maryland's Purple Line construction faces another seven-month delay

Unless work can be accelerated, the long-delayed light-rail Purple Line has a new projected opening date of mid-2027, according to new project reports



By Katherine Shaver

January 19, 2023 at 3:24 p.m. EST

Next Steps

PROJECT MILESTONES 2026 Purple Line 2016 Service to Begin PLTP selected as Concessionaire 2016-2026 2014 Design and Construction FTA issued the 2014 Record of Decision MDOT MTA issued (ROD) Request for Proposals (RFP) 2013 2013 FTA accepted the MDOT MTA selected Final Environmental P3 for project delivery 2009 Impact Study Light rail selected (FEIS) as mode of transit; alignment identified 2009-2014 Conceptual and preliminary 2008 engineering phase Completed Draft Environmental Impact Study (DEIS) 2002-2008 MDOT MTA studied a range of alignments and transit modes

Questions?

