

## E6841: Designing Sustainable Transit

Stanford Splash Fall 2018

Instructor: Alexander Li

Email: E6841-teachers@stanfordesp.org

Room: 160-315

Times: 10:00 AM (S or U)

Course Description: Ever wonder why Transit Agencies put bus routes where they do? Or why BART doesn't connect with Silicon Valley? This class gives a brief introduction into how we put mass transit on the map, how it doesn't function, and how to make it better.

Course Discussion Topics:

- Success and Failure of Transit: *What does transit do? What should it do?*
  - Discussion: problems, benefits, and solutions
- Transit's Limiting Factors: *Geometry and Budgets*
  - Case Study: San Francisco and BART
- Transit's Details: *How do planners adapt to changing needs? How can they make service better?*
  - See *Human Transit* for comprehensive guide (we won't be able to cover all of it in this class)
- Final Project: Designing your Own System (location tbd, email me above for any suggestions)

Further Reading (if you're interested):

*Human Transit: How Clearer Thinking About Public Transit Can Enrich Our Communities and Our Lives* by Jarrett Walker

*BART: The Dramatic History of the Bay Area Rapid Transit System* by Michael C. Healy