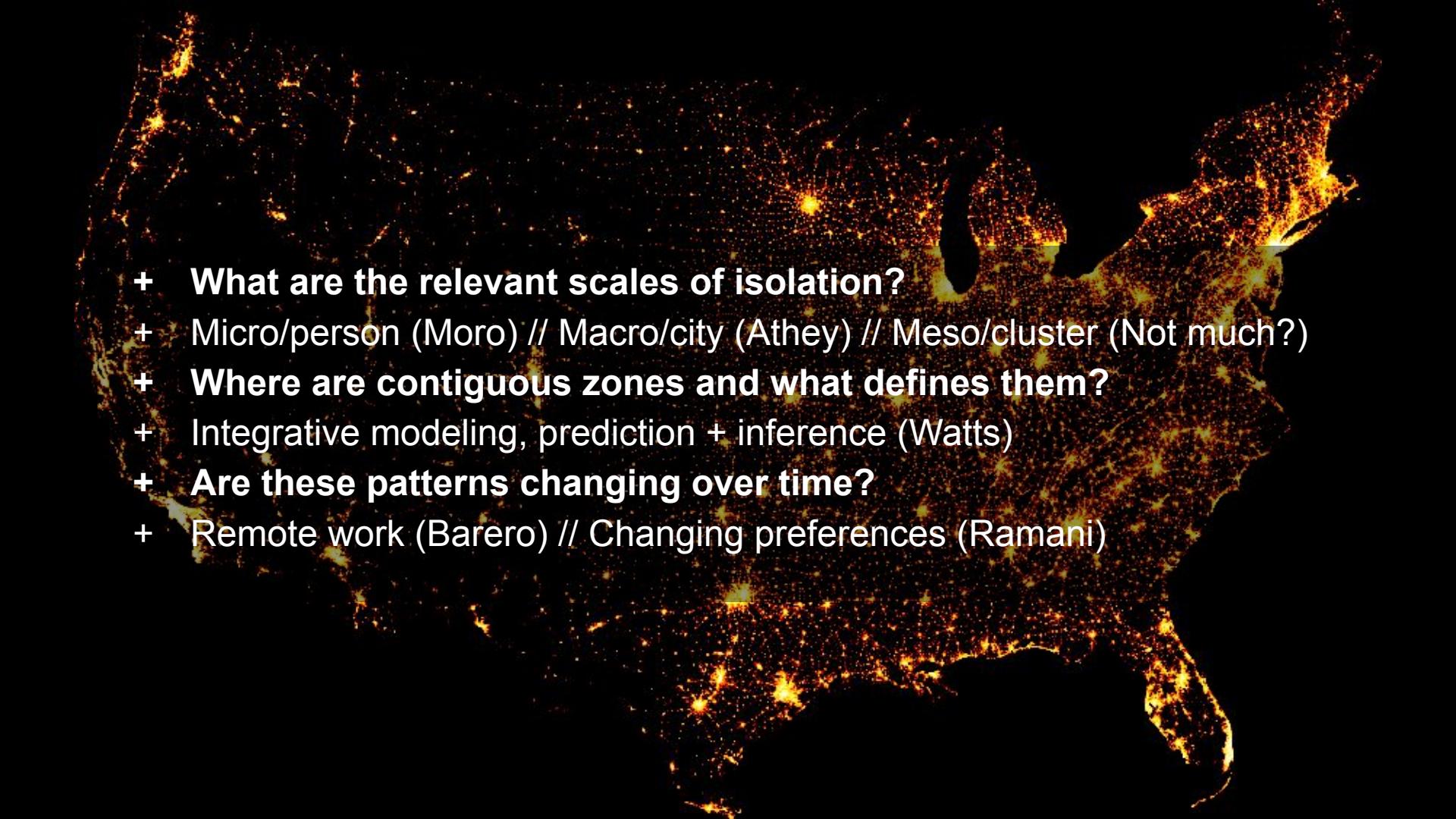




Understanding Neighborhoods with...

Diversity + Exposure in Daily Encounters

Andrew Renninger

- 
- + **What are the relevant scales of isolation?**
 - + Micro/person (Moro) // Macro/city (Athey) // Meso/cluster (Not much?)
 - + **Where are contiguous zones and what defines them?**
 - + Integrative modeling, prediction + inference (Watts)
 - + **Are these patterns changing over time?**
 - + Remote work (Barero) // Changing preferences (Ramani)





few POIs

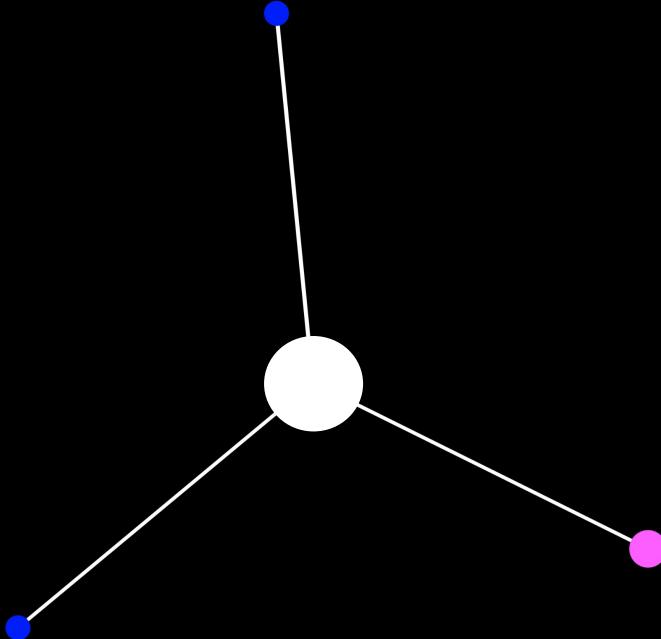
many POIs



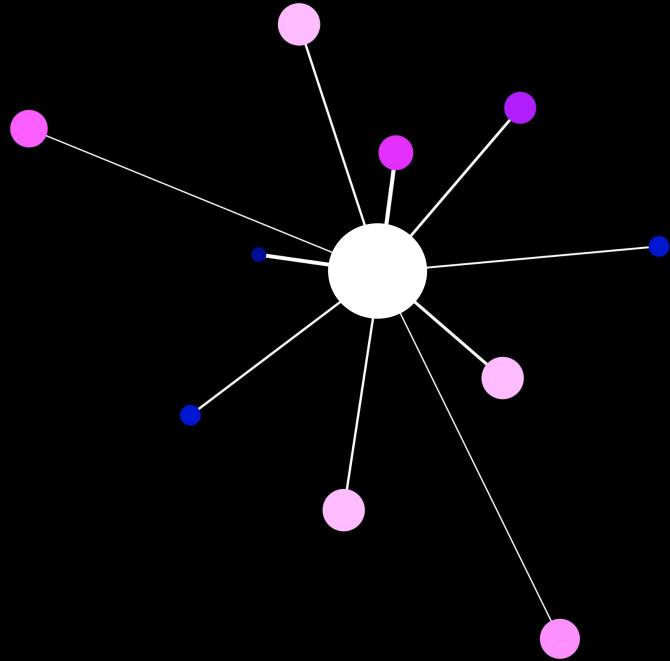


Las Vegas

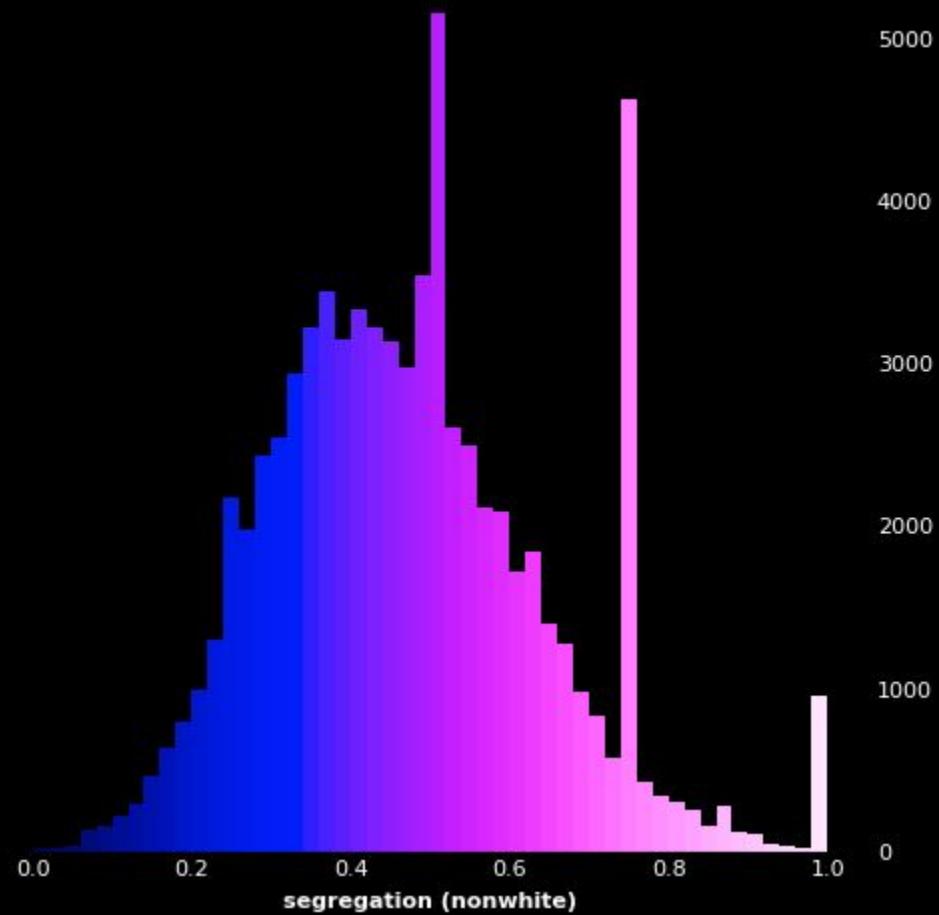
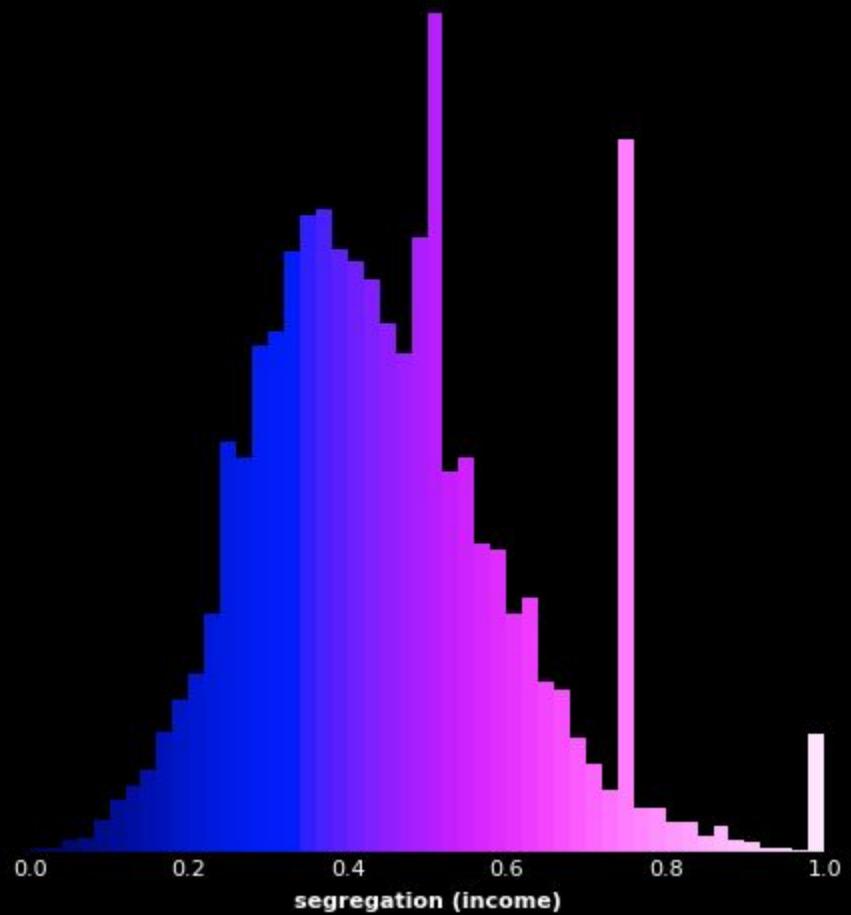
Disney World



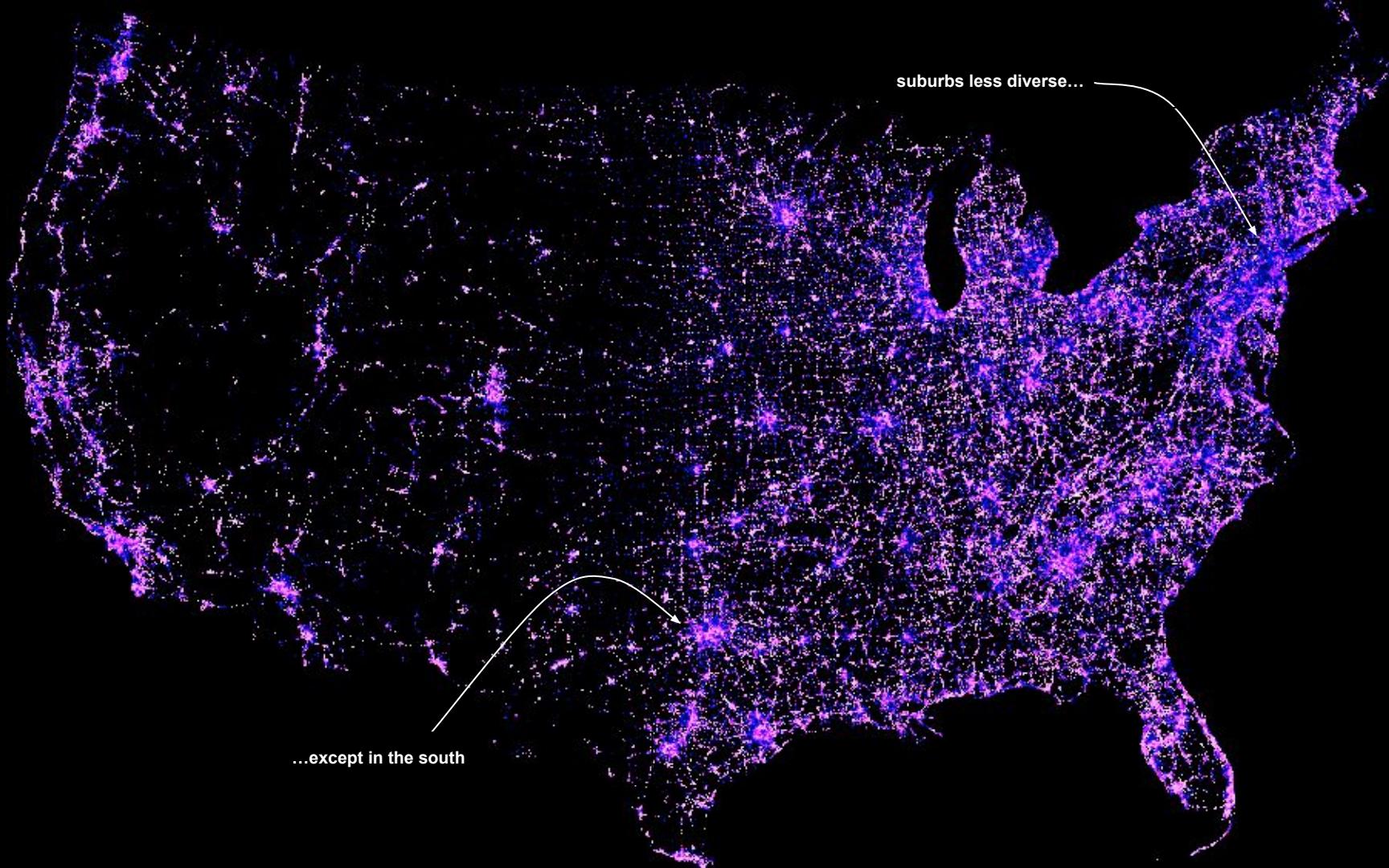
$$S_\alpha = \frac{5}{8} \sum_q \left| \nu_{q\alpha} - \frac{1}{5} \right|$$



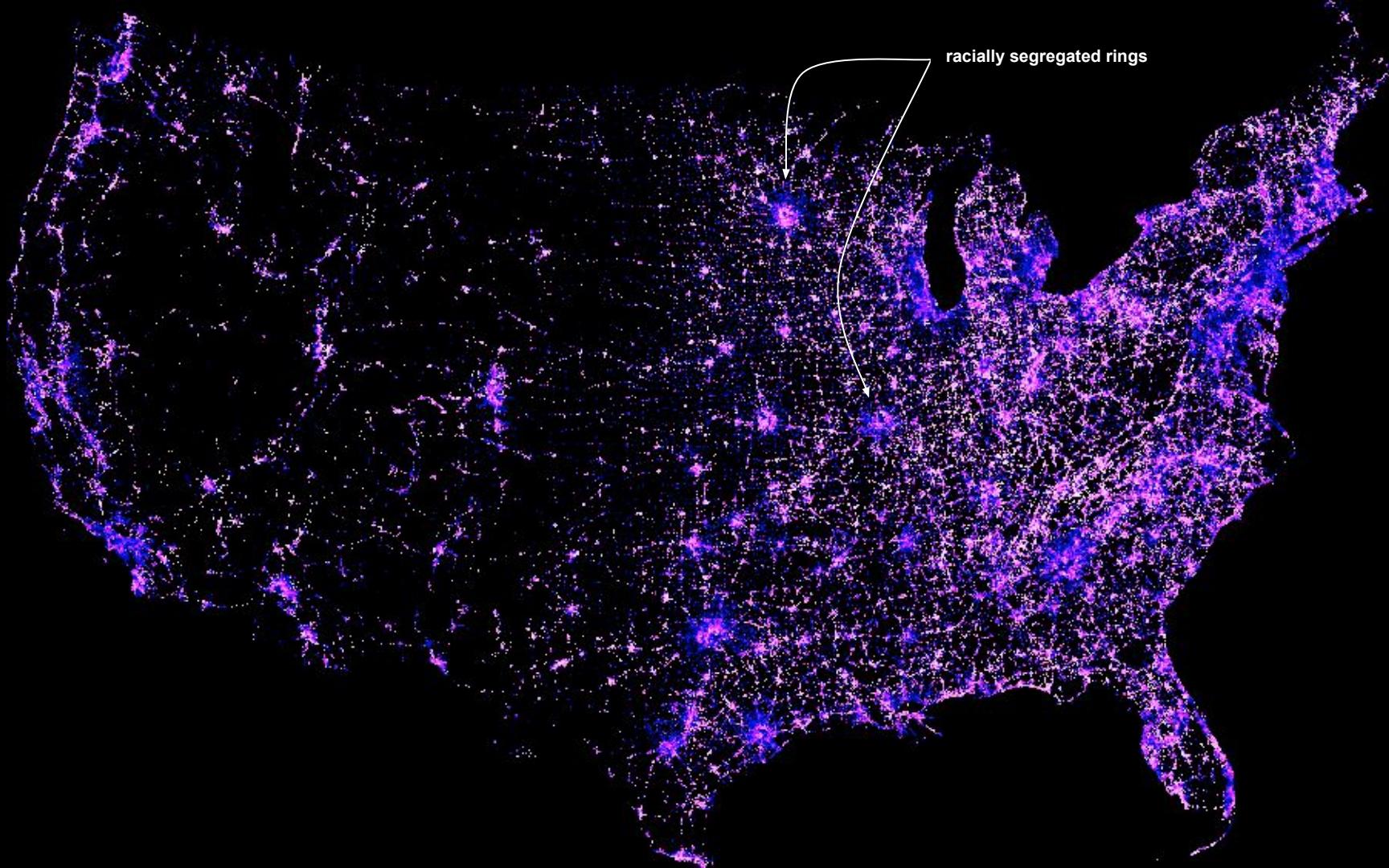
$$S_\alpha = \frac{5}{8} \sum_q \left| \nu_{q\alpha} - \frac{1}{5} \right|$$



INCOME



racially segregated rings



RACE

INCOME

New York



Los Angeles



Chicago



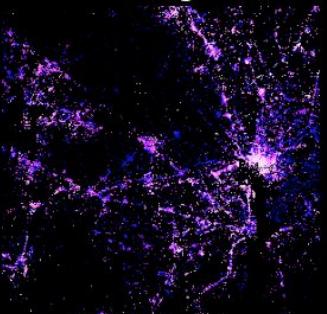
Dallas



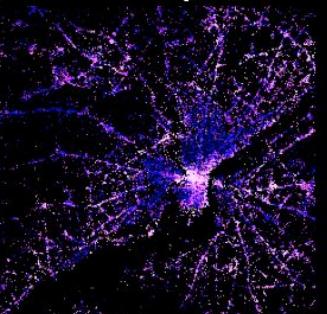
Houston



Washington



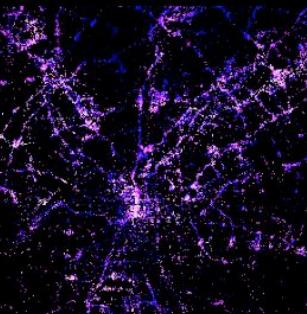
Philadelphia



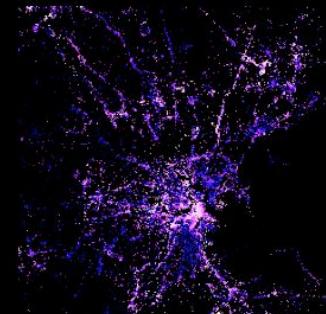
Miami



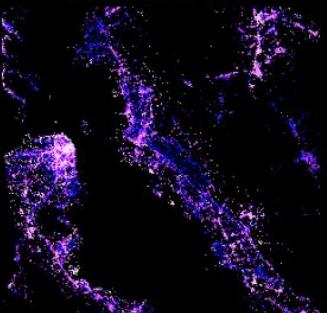
Atlanta



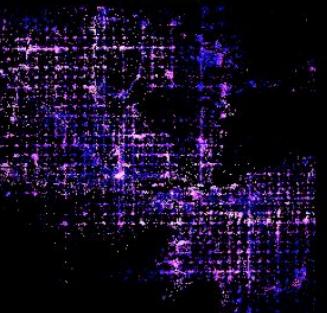
Boston



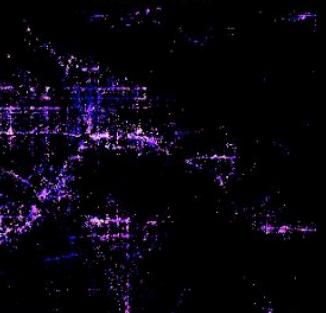
San Francisco



Phoenix



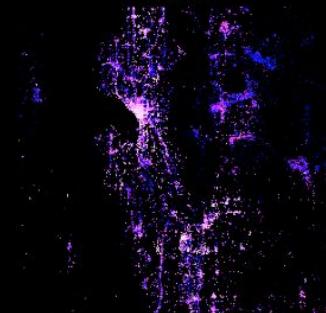
Riverside



Detroit



Seattle

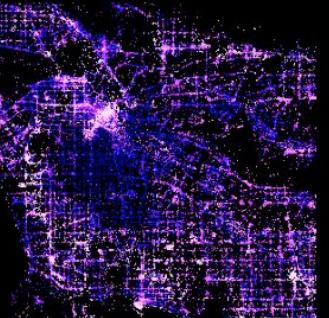


RACE

New York



Los Angeles



Chicago



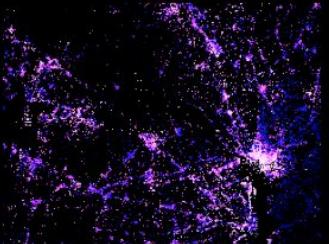
Dallas



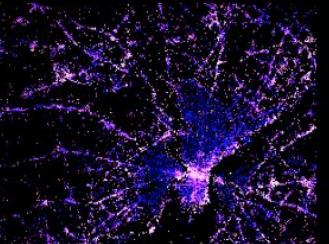
Houston



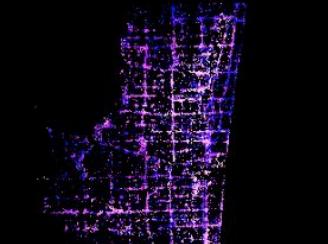
Washington



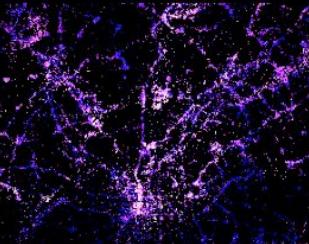
Philadelphia



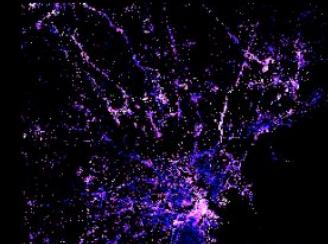
Miami



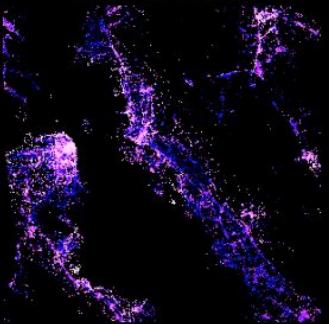
Atlanta



Boston



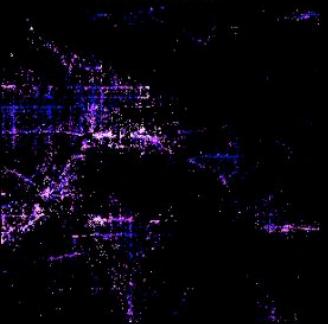
San Francisco



Phoenix



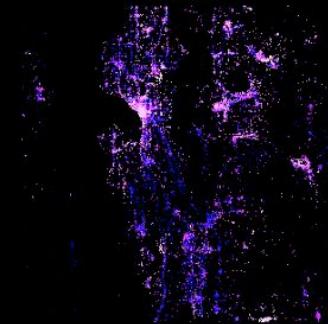
Riverside



Detroit

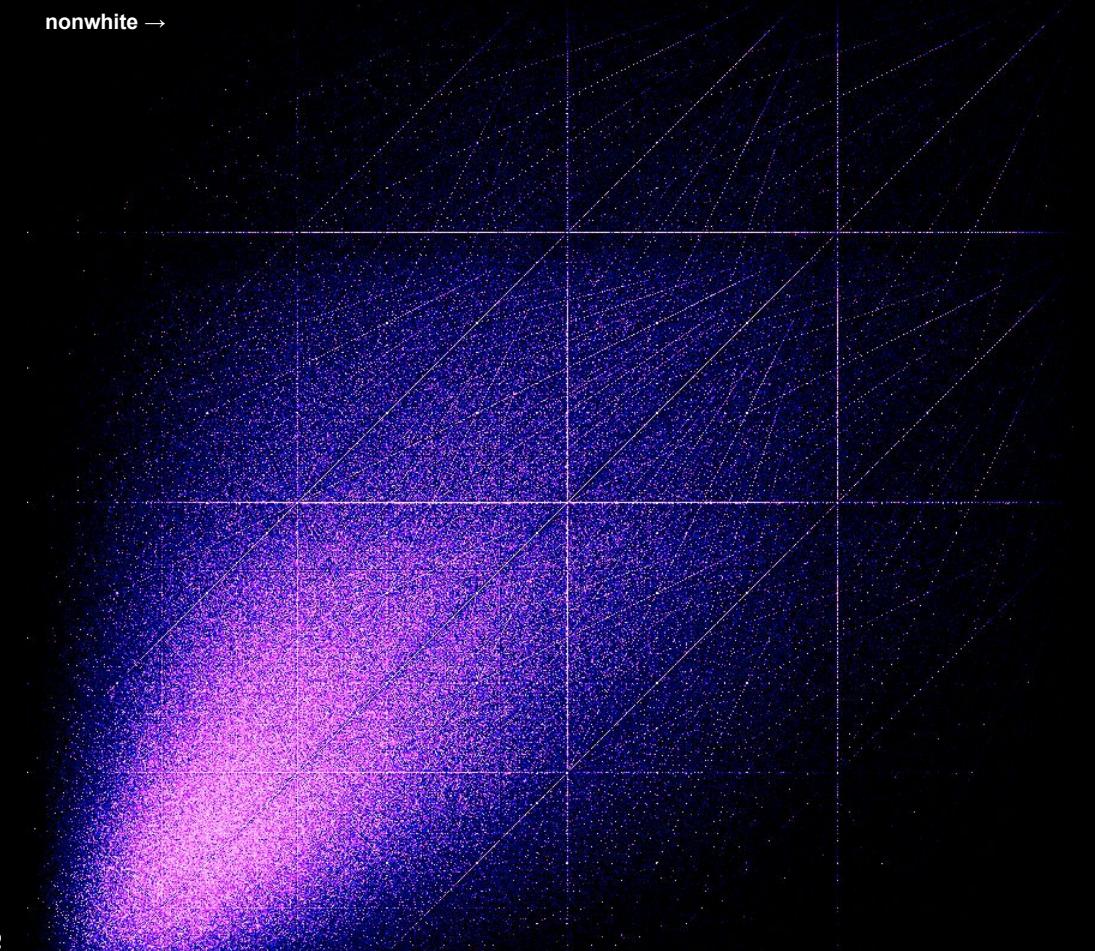


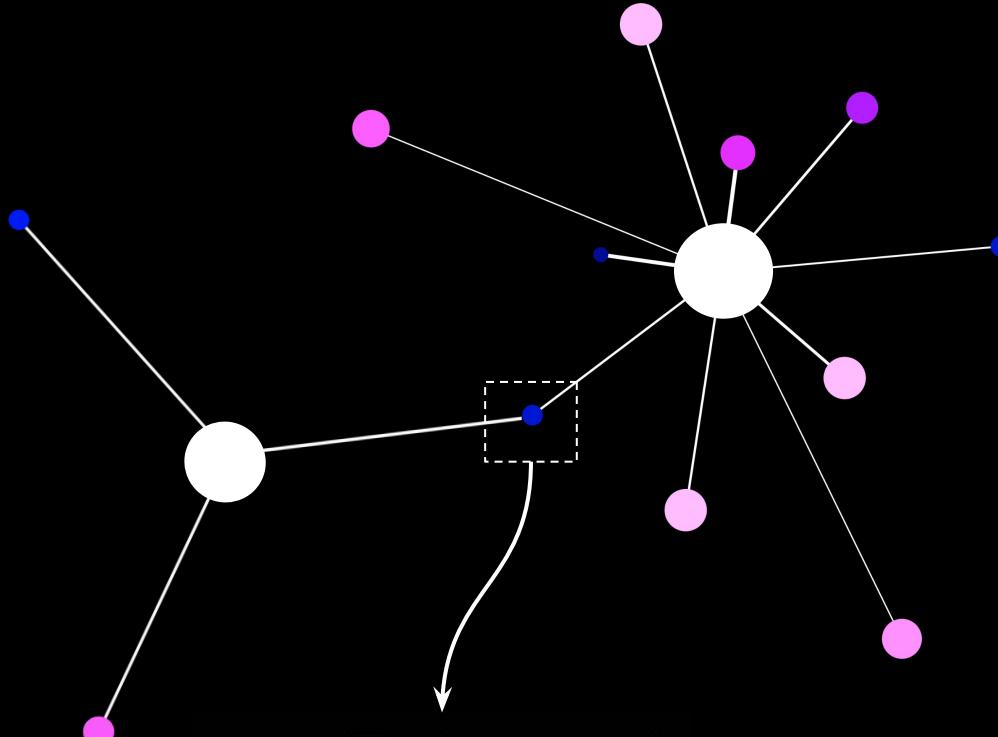
Seattle



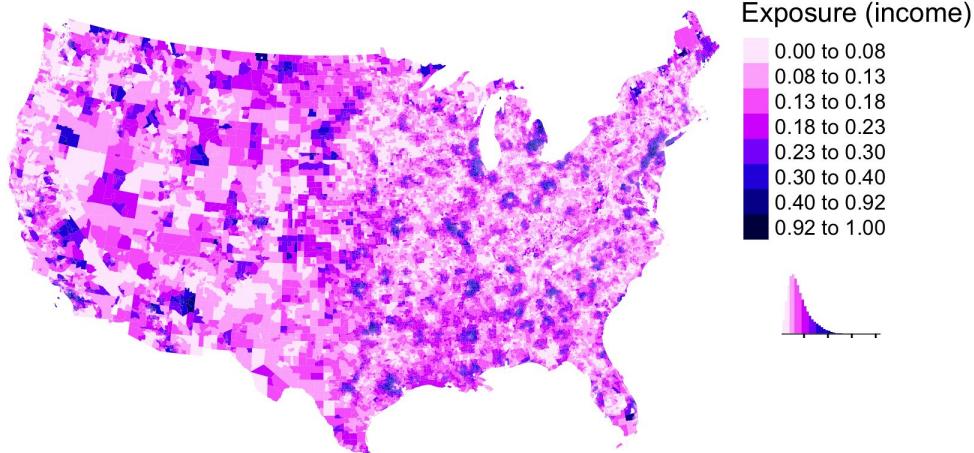
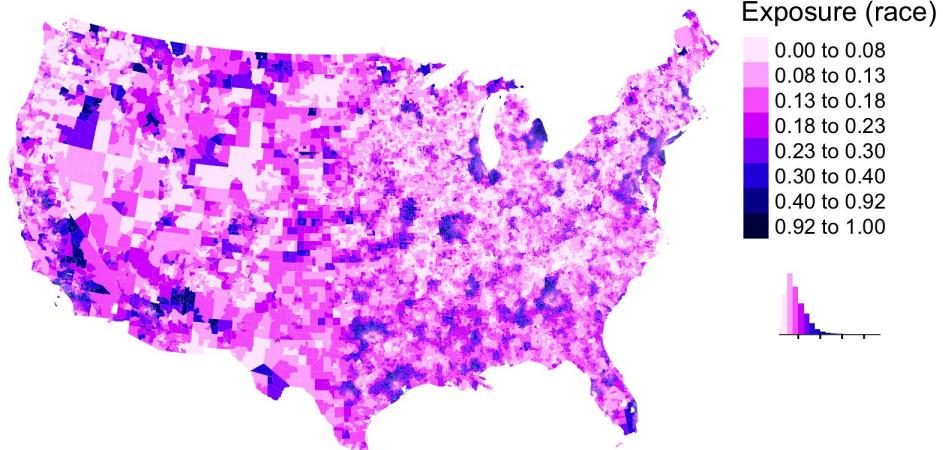
income →

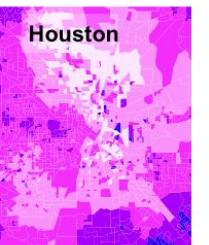
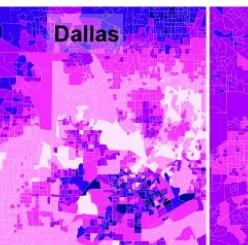
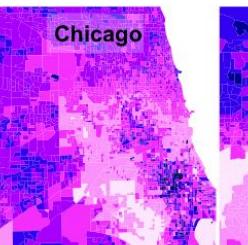
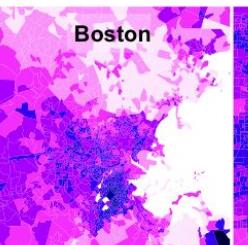
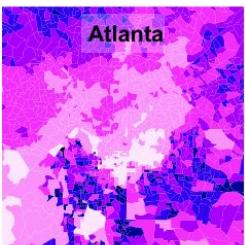
nonwhite →





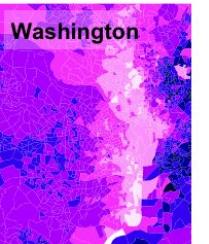
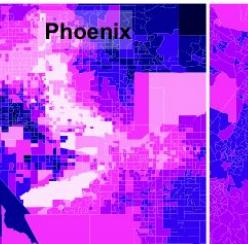
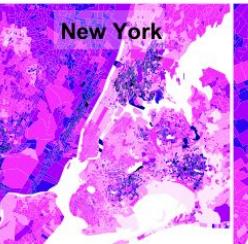
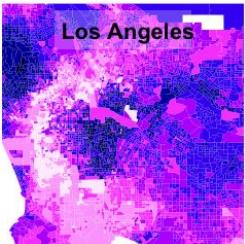
$$I_\gamma = \frac{\sum_\alpha (S_\alpha \times T_{\gamma\alpha})}{\sum_\alpha T_{\gamma\alpha}}$$





Exposure (race)

0.01 to 0.10
0.10 to 0.16
0.16 to 0.22
0.22 to 0.28
0.28 to 0.35
0.35 to 0.47
0.47 to 0.92



Exposure (income)

0.01 to 0.10
0.10 to 0.16
0.16 to 0.22
0.22 to 0.28
0.28 to 0.35
0.35 to 0.47
0.47 to 0.92

