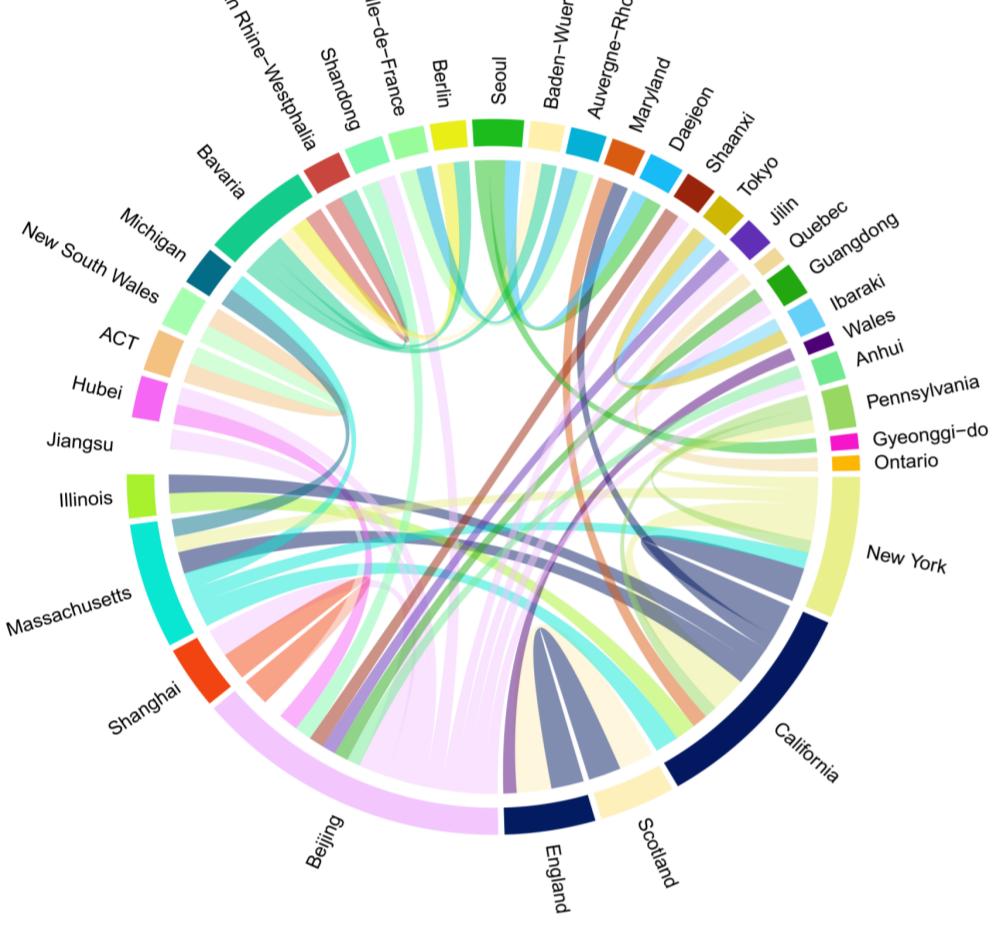
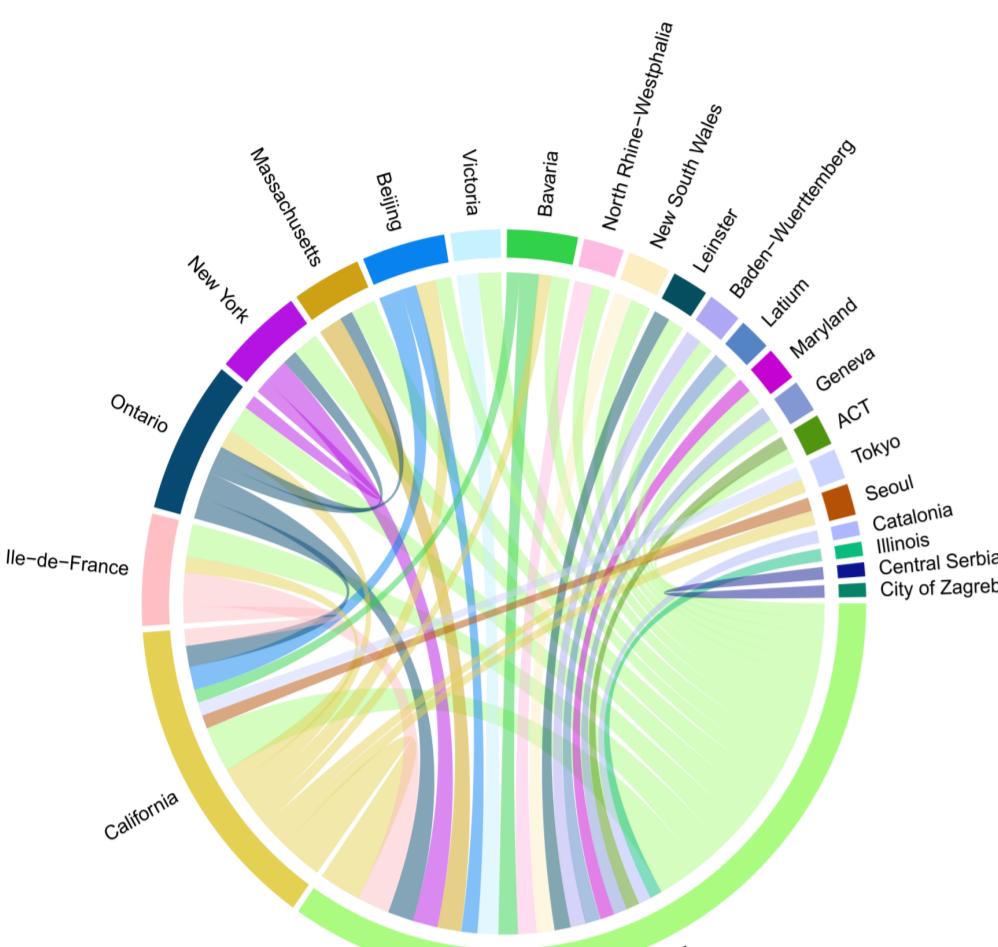


Why?



MAX PLANCK INSTITUTE
FOR DEMOGRAPHIC RESEARCH

1. To repurpose bibliometric data for demographic research
2. To build a macro and micro global database
3. To integrate study of internal and international scholarly migration



Key findings of top 50 region pairs (international: top, internal: bottom):

- England has the highest sent/received scholars
- Internal trend, dominated by Beijing & California

Who?

Who?



How?

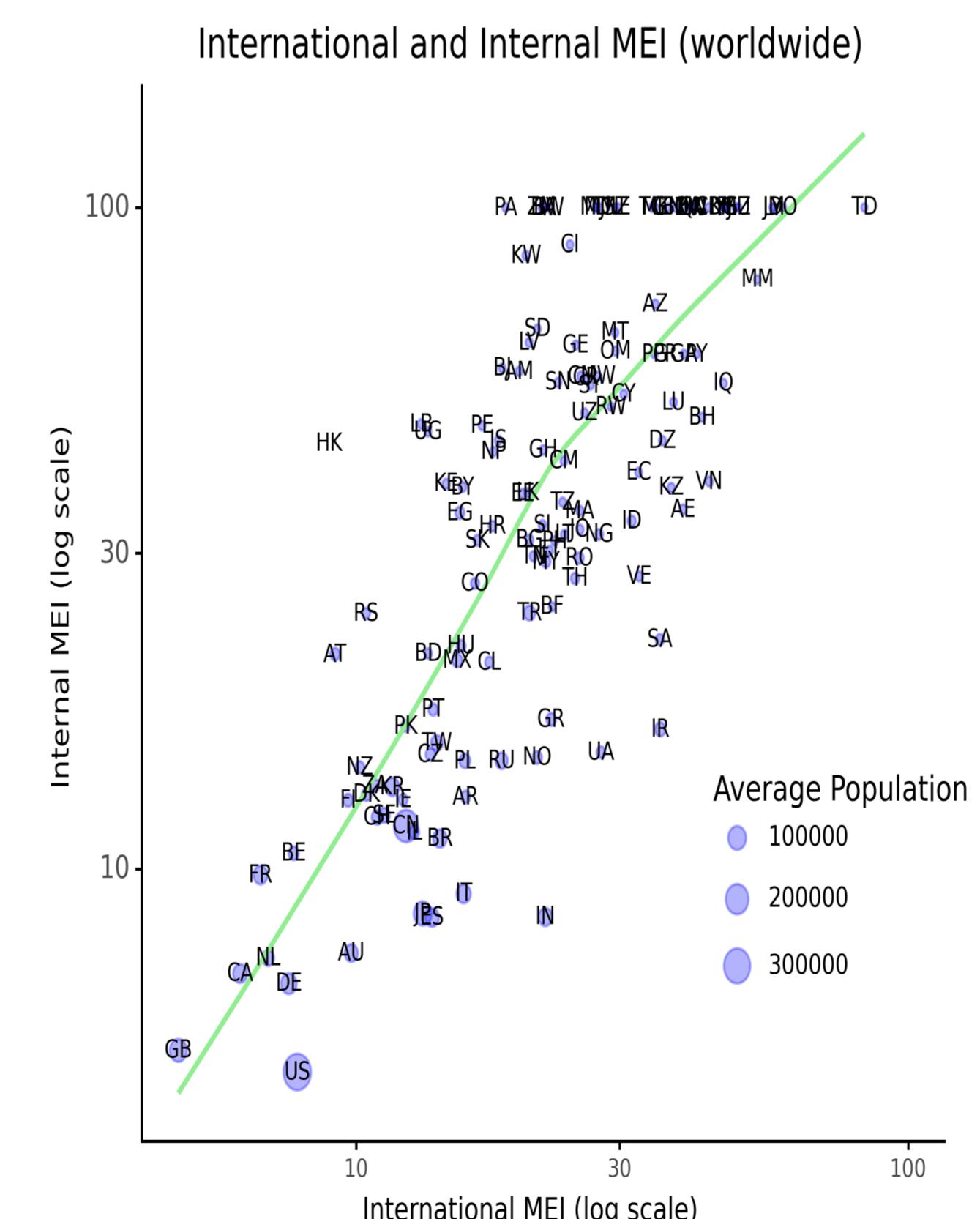
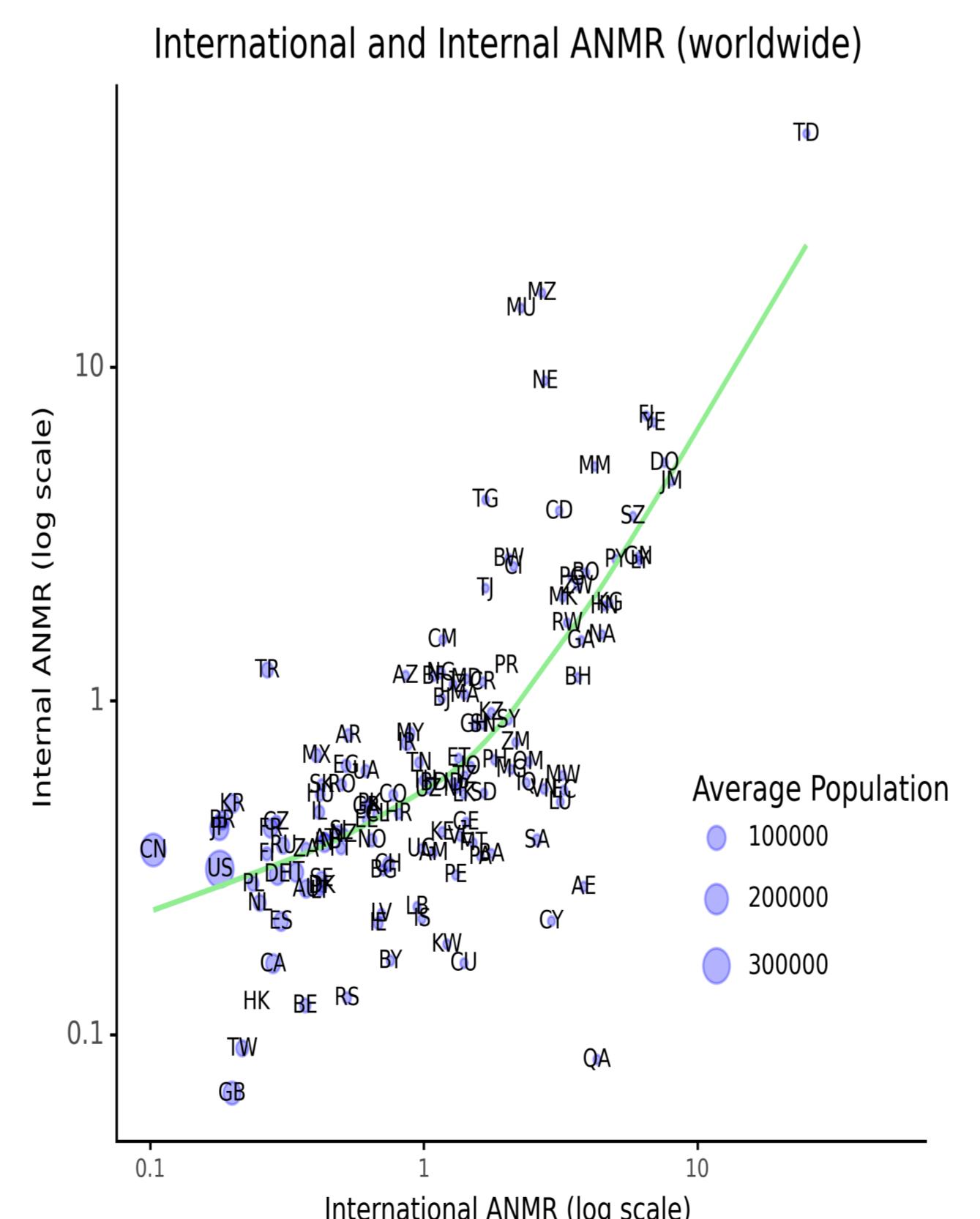
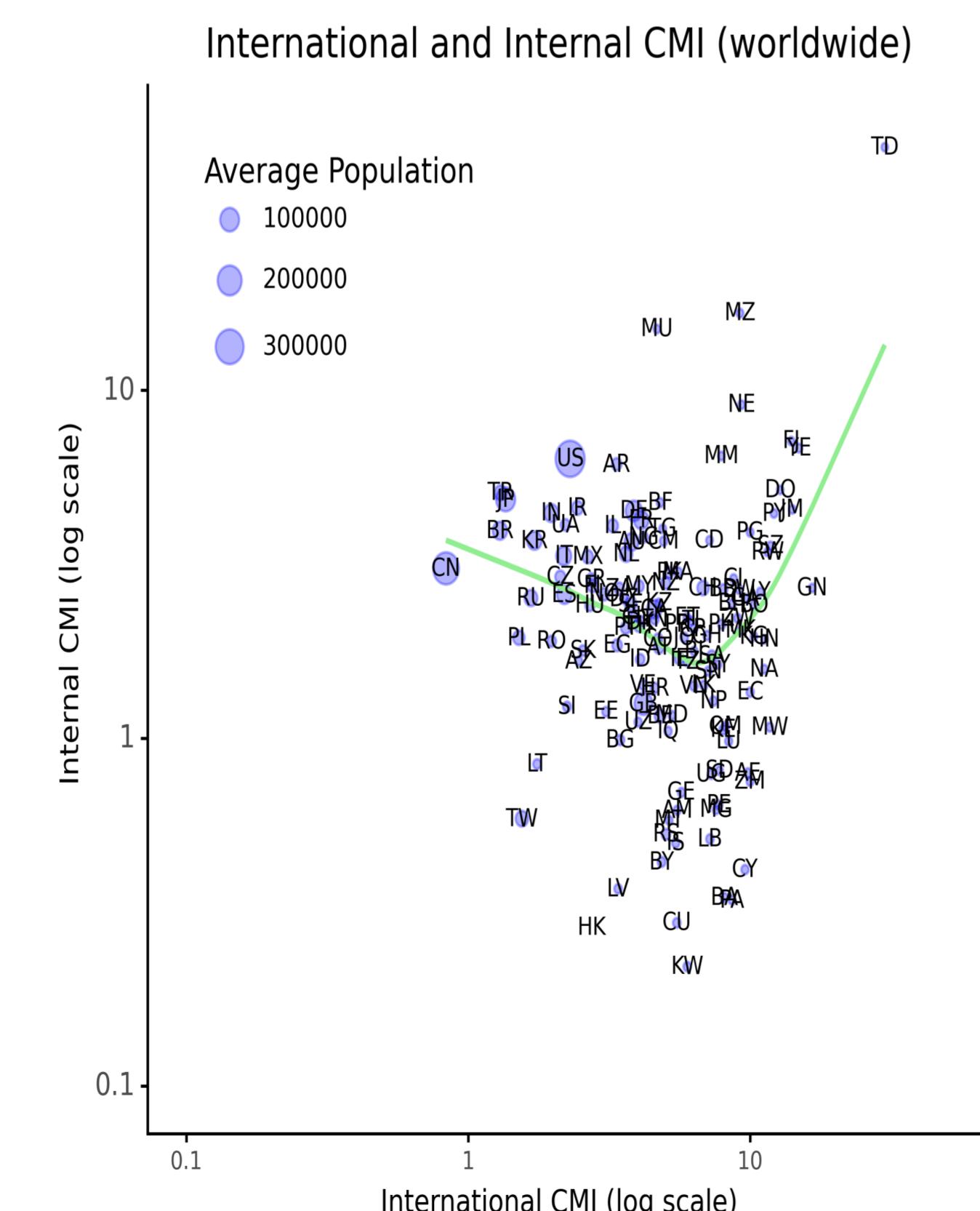
By

1. Using all publications (36 million, 16 million scholars) from Scopus 1996-2020, provided by German Competence Centre for Bibliometrics via MPDL
2. Measuring

$$CMI_{i,t} = 100 \times \frac{M_{i,t}}{\sum_i N_{i,t}}$$

$$ANMR_{i,t} = 100 \times \frac{0.5 \sum_i |I_{i,t} - E_{i,t}|}{\sum_i N_{i,t}}$$

$$MEI_{i,t} = 100 \times \frac{\sum_i |I_{i,t} - E_{i,t}|}{\sum_i (I_{i,t} + E_{i,t})}$$

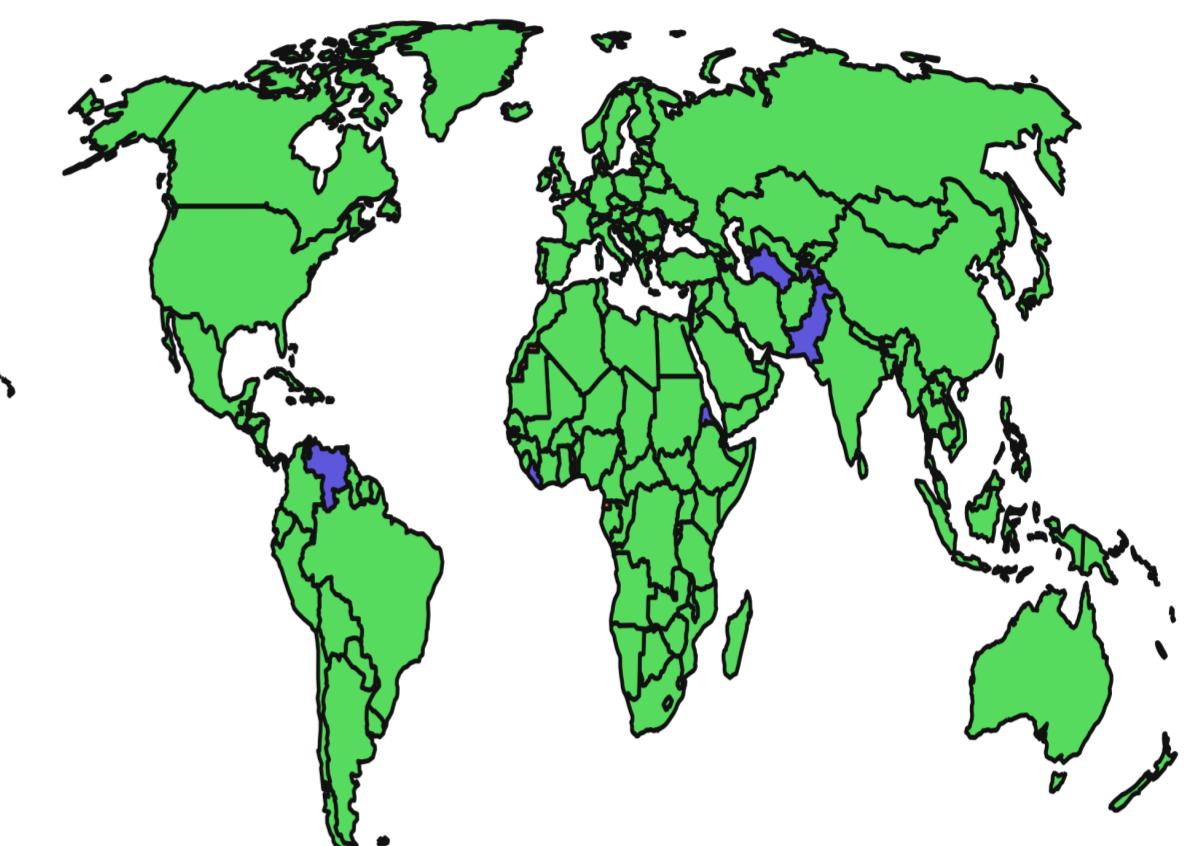


Change?



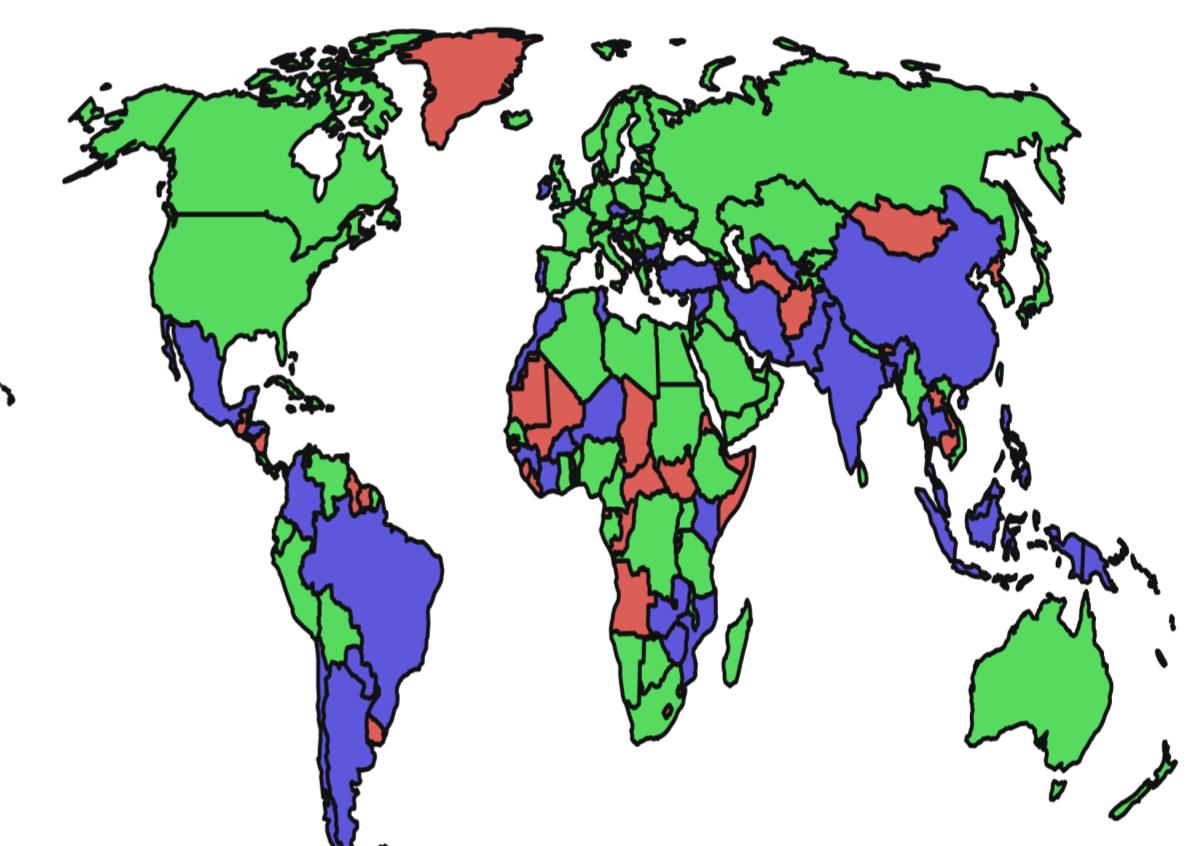
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Beta for CMI international



Sign of slope
0 or missing
Negative slope
Positive slope

Beta for CMI internal



Sign of slope
0 or missing
Negative slope
Positive slope

Key findings:

- One OLS per country over 25 years to evaluate slope of change in CMI in emigration trend (top) and within a country (bottom)
- Most countries had negative emigration slope for CMI
- 21/203 countries had positive slope in international (only 8 visible on map)
- 44/132 countries had positive slope in internal (only 42 visible on map)
- Higher migration intensity does not always mean higher migration effectiveness in redistributing scholars population
- Scholarly migration is clearly more an **internal** phenomenon than **international**

Take away?

- Collaboration and internationalization are extremely effective.
- Gender and Disciplinary differences needs to be investigated.
- Individual level comparison of CV profiles using ORCID vs. Scopus will be the next step.
- Disambiguation of authors and organization names (and addresses) are crucial.

INTERNAL

versus

INTERNATIONAL

Scholarly Migration Worldwide

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