

Supplementary Appendix

Data Sources

- Original bilateral migrant stock data produced by the World Bank can be downloaded from <https://bit.ly/2tXTcI9> (see the final list of all countries included in the estimation procedure in Table A.1.)
- Original data on total population per country produced by the UN Population Division can be downloaded from <https://bit.ly/2cnUFD4>
- Original data on number of deaths per country produced by the UN Population Division can be downloaded from <https://bit.ly/2tNtkj7>
- Original data on number of births per country produced by the UN Population Division can be downloaded from <https://bit.ly/2tZp7I9>
- Taiwan's total population, number of births, and number of deaths data can be downloaded from <https://www.ris.gov.tw/app/en>
- Geographic distance between countries in the world can be downloaded from <https://bit.ly/2KEXfAd>
 - The original data file can be downloaded after clicking on the hyperlink "dist_cepil.dta" on page 2. The original file is a STATA data file (dist_cepil.dta). Therefore, the data set was opened in STATA 13 and save as a .csv file.

The UN data (i.e. population, births, deaths) originally are in thousands, so before saving these three data sheets in .csv format, all cell containing data were multiplied by 1000. This is important because if the data sheets are directly saved in .csv format, the decimal points are lost. The final list of countries included in the estimation process is provided below.

In terms of the number of countries showed in Figure 1, we had to decide between including 49 or 51 of them since we always included both the sender *and* receiving countries of a given top feminized flows/dyads. Note, however, that it is entirely possible that one of the two countries in a given top feminized flow/dyad is listed across several top feminized flows/dyads (e.g., the US is a destination country in many top feminized flows/dyads), thus explaining why the final list contains an odd number (i.e., 51) of countries. We decided to include 51 countries because that meant including Saudi Arabia, an important destination country for women migrants in Asia (Oishi 2005).

Lastly, in the "Sociogram" section of this appendix we provide an alternative visualization of the migration flows under analysis using a version of the Kamada-Kawai force-directed placement algorithm. In the resulting sociogram, ties connecting a given pair of nodes/countries are proportional to the size of the migration flow between them. Similarly, nodes' sizes are proportional to the number of ties/flows each country receives. Finally, nodes are color-coded by geographic region. As can be seen in the resulting sociogram, all the conclusions based on Figure 1 in the paper are supported by this alternative visualization.

Table A.1. List of Countries Included in the Estimation of Migration Flows (N = 192)

Country Name	Region
Afghanistan	South Asia
Albania	Eastern Europe and Central Asia
Algeria	Rest of Middle East and North Africa
Angola	Africa
Antigua and Barbuda	Latin America and the Caribbean
Argentina	Latin America and the Caribbean
Armenia	Eastern Europe and Central Asia
Aruba	Latin America and the Caribbean
Australia	Australia and New Zealand
Austria	Western Europe
Azerbaijan	Eastern Europe and Central Asia
Bahamas, The	Latin America and the Caribbean
Bahrain	High Income Middle East and N. Africa
Bangladesh	South Asia
Barbados	Latin America and the Caribbean
Belarus	Eastern Europe and Central Asia
Belgium	Western Europe
Belize	Latin America and the Caribbean
Benin	Africa
Bhutan	South Asia
Bolivia	Latin America and the Caribbean
Bosnia and Herzegovina	Eastern Europe and Central Asia
Botswana	Africa
Brazil	Latin America and the Caribbean
Brunei Darussalam	East Asia and the Pacific
Bulgaria	Eastern Europe and Central Asia
Burkina Faso	Africa
Burundi	Africa
Cambodia	East Asia and the Pacific
Cameroon	Africa
Canada	Canada
Cape Verde	Africa
Central African Republic	Africa
Chad	Africa
Chile	Latin America and the Caribbean
China	East Asia and the Pacific
Colombia	Latin America and the Caribbean
Comoros	Africa
Congo, Dem. Rep.	Africa
Congo, Rep.	Africa
Costa Rica	Latin America and the Caribbean
Cote d'Ivoire	Africa
Croatia	Eastern Europe and Central Asia

Cuba	Latin America and the Caribbean
Cyprus	Western Europe
Czech Republic	Eastern Europe and Central Asia
Denmark	Western Europe
Djibouti	Africa
Dominican Republic	Latin America and the Caribbean
Ecuador	Latin America and the Caribbean
Egypt, Arab Rep.	Rest of Middle East and North Africa
El Salvador	Latin America and the Caribbean
Equatorial Guinea	Africa
Eritrea	Africa
Estonia	Eastern Europe and Central Asia
Ethiopia	Africa
Fiji	East Asia and the Pacific
Finland	Western Europe
France	Western Europe
French Guiana	Latin America and the Caribbean
French Polynesia	East Asia and the Pacific
Gabon	Africa
Gambia, The	Africa
Georgia	Eastern Europe and Central Asia
Germany	Western Europe
Ghana	Africa
Greece	Western Europe
Grenada	Latin America and the Caribbean
Guadeloupe	Latin America and the Caribbean
Guatemala	Latin America and the Caribbean
Guinea	Africa
Guinea-Bissau	Africa
Guyana	Latin America and the Caribbean
Haiti	Latin America and the Caribbean
Honduras	Latin America and the Caribbean
Hong Kong SAR, China	East Asia and the Pacific
Hungary	Eastern Europe and Central Asia
Iceland	Western Europe
India	South Asia
Indonesia	East Asia and the Pacific
Iran, Islamic Rep.	Rest of Middle East and North Africa
Iraq	Rest of Middle East and North Africa
Ireland	Western Europe
Israel	High Income Middle East and N. Africa
Italy	Western Europe
Jamaica	Latin America and the Caribbean
Japan	Japan
Jordan	Rest of Middle East and North Africa
Kazakhstan	Eastern Europe and Central Asia

Kenya	Africa
Kiribati	East Asia and the Pacific
Korea, Dem. Rep.	East Asia and the Pacific
Korea, Rep.	East Asia and the Pacific
Kuwait	High Income Middle East and N. Africa
Kyrgyz Republic	Eastern Europe and Central Asia
Lao PDR	East Asia and the Pacific
Latvia	Eastern Europe and Central Asia
Lebanon	Rest of Middle East and North Africa
Lesotho	Africa
Liberia	Africa
Libya	Rest of Middle East and North Africa
Lithuania	Eastern Europe and Central Asia
Luxembourg	Western Europe
Macao SAR, China	East Asia and the Pacific
Macedonia, FYR	Eastern Europe and Central Asia
Madagascar	Africa
Malawi	Africa
Malaysia	East Asia and the Pacific
Maldives	South Asia
Mali	Africa
Malta	Western Europe
Martinique	Latin America and the Caribbean
Mauritania	Africa
Mauritius	Africa
Mexico	Latin America and the Caribbean
Micronesia, Fed. Sts.	East Asia and the Pacific
Moldova	Eastern Europe and Central Asia
Mongolia	East Asia and the Pacific
Morocco	Rest of Middle East and N. Africa
Mozambique	Africa
Myanmar	East Asia and the Pacific
Namibia	Africa
Nepal	South Asia
Netherlands	Western Europe
New Caledonia	East Asia and the Pacific
New Zealand	Australia and New Zealand
Nicaragua	Latin America and the Caribbean
Niger	Africa
Nigeria	Africa
Norway	Western Europe
Oman	High Income Middle East and N. Africa
Pakistan	South Asia
Panama	Latin America and the Caribbean
Papua New Guinea	East Asia and the Pacific
Paraguay	Latin America and the Caribbean

Peru	Latin America and the Caribbean
Philippines	East Asia and the Pacific
Poland	Eastern Europe and Central Asia
Portugal	Western Europe
Puerto Rico	Latin America and the Caribbean
Qatar	High Income Middle East and N. Africa
Reunion	Africa
Romania	Eastern Europe and Central Asia
Russian Federation	Eastern Europe and Central Asia
Rwanda	Africa
Samoa	East Asia and the Pacific
Sao Tome and Principe	Africa
Saudi Arabia	High Income Middle East and N. Africa
Senegal	Africa
Serbia and Montenegro	Eastern Europe and Central Asia
Sierra Leone	Africa
Singapore	East Asia and the Pacific
Slovak Republic	Eastern Europe and Central Asia
Slovenia	Eastern Europe and Central Asia
Solomon Islands	East Asia and the Pacific
Somalia	Africa
South Africa	Africa
Spain	Western Europe
Sri Lanka	South Asia
St. Lucia	Latin America and the Caribbean
St. Vincent and the Grenadines	Latin America and the Caribbean
Sudan	Africa
Suriname	Latin America and the Caribbean
Swaziland	Africa
Sweden	Western Europe
Switzerland	Western Europe
Syrian Arab Republic	Rest of Middle East and North Africa
Taiwan, China	East Asia and the Pacific
Tajikistan	Eastern Europe and Central Asia
Tanzania	Africa
Thailand	East Asia and the Pacific
Timor-Leste	East Asia and the Pacific
Togo	Africa
Tonga	East Asia and the Pacific
Trinidad and Tobago	Latin America and the Caribbean
Tunisia	Rest of Middle East and North Africa
Turkey	Eastern Europe and Central Asia
Turkmenistan	Eastern Europe and Central Asia
Uganda	Africa
Ukraine	Eastern Europe and Central Asia
United Arab Emirates	High Income Middle East and N. Africa

United Kingdom
United States
Uruguay
Uzbekistan
Vanuatu
Venezuela, RB
Vietnam
West Bank and Gaza
Yemen, Rep.
Zambia
Zimbabwe

Western Europe
United States
Latin America and the Caribbean
Eastern Europe and Central Asia
East Asia and the Pacific
Latin America and the Caribbean
East Asia and the Pacific
Rest of Middle East and North Africa
Rest of Middle East and North Africa
Africa
Africa

Code

All the relevant code to reproduce the results is available here:

<https://github.com/diegoFLeal/migrationWomen90s>. The technical details related to the estimation of the flows are provided in Abel (2013)

Circos Plot Specifications

LABELS							
	Parallel	Font	Size	Color			
Segment	Yes	Normal	Med	Black			
Tick	No	Light	Small	Black			
Segment labels inside segments	Unchecked						
DATA FILTERS							
Cell percentile cutoff	0		Intra-segment cells	Show			
VALUE REMAPPING							
Attenuate small values	Unchecked						
ROW AND COLUMN SEGMENTS							
Thickness	thin	Spacing	very loose	radius	Large		
Order	name	Progression	Desc	Normalize segment size	No		
CELL RIBBONS							
Ribbon placement on segments	Row ribbon first	Ribbon order	Destination segment position	Ribbon layer order	Large on top of small		
Reverse row and column ribbon position	Unchecked	Default Transparency	2				
QUARTILE RIBBONS							
Q1	Unchecked	Color	(blank)	Transparency	(blank)	Stroke	Yes
Q2	Unchecked	Color	(blank)	Transparency	(blank)	Stroke	Yes
Q3	Unchecked	Color	(blank)	Transparency	(blank)	Stroke	Yes
Q4	Unchecked	Color	(blank)	Transparency	(blank)	Stroke	Yes
CONTRIBUTION TRACKS							
Hide	checked	Expand size to segment size	Unchecked	No stroke	Unchecked		
RIBBON CAPS							
hide ribbon caps colored by row	Unchecked		no stroke	Unchecked	hide ribbon caps colored by column	Unchecked	
RATIO LAYOUT							
Use ratio layout	Unchecked						
Start segments at 3 o'clock	checked	Hide first tick label	checked	No stroke on any segment	Unchecked		
Draw last tick (seg. size)	Unchecked	Hide segment labels	Unchecked	Hide absolute tick marks	checked		
Hide all tick labels	Unchecked	Hide relevant tick marks	checked				
COLORS							
Colors ribbon by	row	Colors ribbons by value	no	Segment color order	Segment label	Seg color interpolation	By count

Input data files can be obtained by running the relevant code (see code section in this Appendix). Once the input data files are obtained, the user has to write “DATA” in cell [1,1] of the flow matrix and saved as a .txt file. Then, the Circos plots used in the paper can be fully reproduced using a web application (<http://mkweb.bcgsc.ca/tableviewer/>) with the settings detailed in the table above.

