Bouckaert, Bowern and Atkinson (2018) vs. all data linked • WesternArrarnta-------WesternArrarnta • -----Warlpiri •······WalmajarriHR√ ------Warlmanpa ·······• -----Warlpiri-__-Ngardily.....-•----Warlmanpa---``WalmajarriHR.....-.....Ngardily--...Jaru--•······Ngarinyman------Ngarinyman ···Mudburra------Mudburra------Bilinarra-----Bilinarra-Gurindji------Gurindji------0.8 ___-Nyangumarta..... ·····MangalaMcK--->*====--MangalaMcK...... •·····Nyangumarta--.....Karajarri------Karajarri-------Kukatja------Kukatja------....Yulparija---------Yulparija...... ...Kartujarra-----<u>0.7</u> ·Warnman-------Warnman------•······PintupiLuritja------PintupiLuritja······Ngaanyatjarra-----Ngaanyatjarra 0.99 ---Wangkatja _____Mirniny ■······Ngadjumaya-\Nhanta..... -- Mirniny--------Malgana------.....Nhanta--------Badimaya.....Malgana-0.91 ······Badimaya-____-Tharrgari------·····Wajarri-0.98 ____-Warriyangga... ----Tharrgari-____Jiwarli------85 Warriyangga-....Jiwarli-___-Payungu...... _ - - Thalanyji----------Payungu-0.92 --Purduna-----·····Thalanyji-.....Purduna Nukunu------Adnyamathanha • Martuthunira .Wirangu..... ·····NyamalNgarla 'Wangkatja..... -Nyamal-------Kurrama√ ······Yindjibarndi -Ngarla-----Yinhawangka Martuthunira ·Kurrama·········-----Panyjima `-Yindjibarndi-------...Ngarluma√ `-Yinhawangka....._f ·····Kariyarra、, `Panyjima ·····Nukunu^{,′} 1 `-Ngarluma-----_b__0.74 $exttt{--}$ ··Adnyamathanha $exttt{^{\prime}}$ `-Kariyarra... •----Wirangu