Statistical Addendum

Intergenerational Mobility and Interpersonal Inequality in an African Economy

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To further explore the characteristics of those who inherit, Table A2 gives probits for any form of inheritance, while Table A3 gives probits for land inheritance in particular; in both cases we present the marginal effects. We also provide the breakdown by gender. We show two specifications, the second of which drops a number of variables that might be considered endogenous to inheritance. (Later we will use these pruned regressions as the first stage for an instrumental variables estimator.) While the causal interpretation of the first regression (including the endogenous variables) can be questioned, it is still of descriptive interest.

We include a wide range of controls in these regressions (and those reported later), including: gender, age and age squared, age at first marriage, whether one is the first born of a given gender among siblings with the same mother and same father, whether one is the first born among all children with the same mother and father, whether the first born sibling from the same mother and father is a boy, number of brothers from the same father and mother, number of brothers from the same father only and same mother only, and the same three variables for sisters, ethnic group, being Muslim relative to other religions, having some formal education, whether fostered as a child, and whether fostered at a young age (prior to two years of age, which typically implies a permanent move for the child in the Senegal context). There are also controls for parental characteristics (education, occupation, place of residence, whether the father died in the last two years, and whether the mother did so) and some demographic variables describing the household (log household size) and the individual’s cell (log cell size, share of adults and share of children age 5 and under).

We continue to find that men are more likely to inherit than women, even with the controls. Conditional on the included controls, being male adds 0.11 to 0.13 to the conditional probability of receiving any inheritance, while it adds 0.08 to the probability of inheriting land.

Unsurprisingly, the death of either parent increases the probability of inheritance, and the coefficients are considerably higher for paternal death. In the full sample, death of the father alone adds 0.67 to the probability of inheritance, while death of the mother adds only 0.13; with respect to land inheritance the probability is increased by 0.32 by a deceased father, but only by
0.03 by a deceased mother. This later estimate reflects the previously noted fact that at a woman’s death, her land is returned to her husband (or brothers) first. By contrast, children inherit from their father at his death, whether or not their mother is still alive. These effects are significant across almost all strata and specifications, the only exception being that death of the mother is not a significant predictor of land inheritance by women. The effect of a father’s recent death dampens the large “father dead” effect for any inheritance (bringing it down from 0.67 to 0.54, when the mother is still alive). This is consistent with our casual observations from interviews that inheritance, particularly of the house and non-land assets, is typically delayed.¹ The dampening effect is much lower for land inheritance and significant only for men.

There is a positive coefficient on education in the regressions for any inheritance, which suggests complementarity rather than substitution by parents between formal schooling and inheritance (whereby some children get some form of inheritance while others get formal schooling as hypothesized by Quisumbing et al. 2004). However, there is some sign of such substitution for land inheritance, though it is only statistically significant for women; those women with formal schooling are less likely to inherit land. Depending on the timing of parents’ death, this might reflect the individual choice of an educated woman with a non-farm economic activity to give up her land inheritance to the benefit of her siblings, rather than a parental decision to substitute one form of transmission for another.

Men who were fostered as boys are more likely to inherit land unless they were fostered before age two. This pattern is plausible. Fostering out a very young child is suggestive of giving away the child (for example to a childless parent), which is an indication that inheritance is unlikely. By contrast, fostering an older child is in general less permanent and more suggestive of an investment in the child, which would also suggest that inheritance is more likely.² None of these effects are statistically significant for girls.

Having a mother active in the non-farm sector significantly increases the probability of any inheritance for men although not for women. For land inheritance, paternal activity in farm work has no effect, but maternal farm work has a positive correlation with men’s, and less so women’s, land inheritance. This could reflect the fact that a mother in farming suggests a greater availability of land for the parental household. The father’s non-farm activity matters but negatively — significantly reducing the likelihood of inheriting land for both genders. In fact,

¹ This is due in part to the difficulty of distributing the inheritance — much of which consists of the dwelling, is lumpy — across the extended kinship group.
² See Beck et al. (2011) for a detailed discussion of fostering practices in Senegal.
symmetrically to the previous result, a father’s involvement in a non-farm activity reduces the likelihood that the household has control over any land at all.

Finally, the number of siblings of the opposite gender is significantly associated with inheriting from one’s parents. For men a positive effect on land and on any inheritance is related to the number of sisters from the same father, whether or not they also share their mother (i.e., same father or same parents). This is in accordance with traditional results on siblings rivalry, suggesting that, if boys are favored with respect to inheritance, controlling for the number of siblings, a higher share of sisters is beneficial to men. For women, the number of brothers from the same mother reduces the likelihood of getting any inheritance while more brothers from the same father has a significant but very small positive influence on land inheritance. Brothers with the same mother may well compete with girls for the inheritance of their mother’s personal assets.

Controlling for these other variables, there is little sign that the probability of inheritance is different between urban and rural areas for men. However, women’s probability of any inheritance is lower in rural areas.

References:
Beck, Simon, Philippe De Vreyer, Sylvie Lambert, Karine Marazyan et Abla Safir, 2011, “Child Fostering in Senegal,” mimeo, Paris School of Economics.

Garg, Ashish and Jonathan Morduch, 1998, “Sibling Rivalry and the Gender Gap: Evidence from Child Health Outcomes in Ghana,” *Journal of Population Economics* 11(4):471-493.

Quisumbing, Agnes, Jonna P. Estudillo and Keijiro Otsuka, 2004, *Land and Schooling: Transferring Wealth Across Generations*. Baltimore and London: Johns Hopkins University Press for the International Food Policy Research Institute.

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3 “Sibling from same parents” means that the siblings share both parents. By contrast, “sibling from the same father” means that the father is common, but not the mother (and conversely for “sibling from the same mother”).

4 These correlations bring to mind the literature on sibling rivalry in Africa and the role of siblings of the opposite sex in determining outcomes (for ex., Garg and Morduch 1998).
| Variable                                      | Obs. | Mean   | Std. Dev. | Min   | Max  |
|----------------------------------------------|------|--------|-----------|-------|------|
| Log cell consumption per capita              | 4339 | 12.528 | 1.017     | 9.932 | 18.059 |
| In farming                                   | 4365 | 0.196  | 0.397     | 0     | 1    |
| In non-farm                                  | 4365 | 0.454  | 0.498     | 0     | 1    |
| In other                                     | 4365 | 0.084  | 0.277     | 0     | 1    |
| Same residence as parents                    | 4365 | 0.539  | 0.499     | 0     | 1    |
| Male                                         | 4365 | 0.429  | 0.495     | 0     | 1    |
| Age                                          | 4360 | 42.594 | 14.931    | 2     | 98   |
| Muslim                                       | 4365 | 0.948  | 0.221     | 0     | 1    |
| Serere ethnicity                             | 4352 | 0.130  | 0.336     | 0     | 1    |
| Poular ethnicity                             | 4352 | 0.283  | 0.450     | 0     | 1    |
| Diola ethnicity                              | 4352 | 0.046  | 0.210     | 0     | 1    |
| Mandingue ethnicity                          | 4352 | 0.062  | 0.241     | 0     | 1    |
| Sarakole ethnicity                           | 4352 | 0.027  | 0.162     | 0     | 1    |
| Mandiaque ethnicity                          | 4352 | 0.012  | 0.110     | 0     | 1    |
| Other ethnicity                              | 4352 | 0.039  | 0.193     | 0     | 1    |
| Brothers same father (no.)                   | 4313 | 1.671  | 2.319     | 0     | 21   |
| Brothers same parents (no.)                  | 4320 | 1.984  | 1.648     | 0     | 11   |
| Sisters same father (no.)                    | 4309 | 1.533  | 2.239     | 0     | 17   |
| Sisters same parents (no.)                   | 4321 | 1.945  | 1.690     | 0     | 14   |
| Brothers same mother (no.)                   | 4314 | 0.317  | 0.888     | 0     | 10   |
| Sisters same mother (no.)                    | 4313 | 0.290  | 0.856     | 0     | 10   |
| First born same gender                       | 4365 | 0.470  | 0.499     | 0     | 1    |
| First born of siblings                       | 4365 | 0.294  | 0.456     | 0     | 1    |
| First born is male                           | 4271 | 0.568  | 0.495     | 0     | 1    |
| Father dead recently                         | 4365 | 0.075  | 0.263     | 0     | 1    |
| Father in farming                            | 4365 | 0.354  | 0.478     | 0     | 1    |
| Mother in farming                            | 4365 | 0.208  | 0.406     | 0     | 1    |
| Father in nonfarm                            | 4365 | 0.320  | 0.466     | 0     | 1    |
| Mother in nonfarm                            | 4365 | 0.155  | 0.362     | 0     | 1    |
| Father in ‘other’                            | 4365 | 0.011  | 0.106     | 0     | 1    |
| Mother in ‘other’                            | 4365 | 0.020  | 0.139     | 0     | 1    |
| Father’s schooling                           | 4365 | 0.117  | 0.321     | 0     | 1    |
| Mother’s schooling                           | 4365 | 0.056  | 0.231     | 0     | 1    |
| Father rural                                 | 3896 | 0.599  | 0.490     | 0     | 1    |
| Mother rural                                 | 3968 | 0.589  | 0.492     | 0     | 1    |
| Log hh size                                  | 4365 | 2.122  | 0.700     | 0     | 3.784 |
| Log cell size                                | 4365 | 0.967  | 0.694     | 0     | 2.708 |
| Share of cell members aged<5                 | 4365 | 0.144  | 0.213     | 0     | 0.800 |
| Share of adults in cell                      | 4365 | 0.651  | 0.315     | 0     | 1    |
| Has formal education                         | 4365 | 0.292  | 0.455     | 0     | 1    |
| Fostered                                     | 4365 | 0.162  | 0.368     | 0     | 1    |
| Fostered young                               | 4365 | 0.079  | 0.269     | 0     | 1    |
| Age at first marriage                        | 4080 | 22.614 | 6.827     | 6     | 65   |
| Inherited land                               | 4365 | 0.233  | 0.423     | 0     | 1    |
| Inherited house                              | 4365 | 0.338  | 0.473     | 0     | 1    |
| Otherinheritance                            | 4365 | 0.216  | 0.411     | 0     | 1    |
| Rural                                        | 4365 | 0.487  | 0.500     | 0     | 1    |
| Father dead                                  | 4337 | 0.661  | 0.473     | 0     | 1    |
| Mother dead                                  | 4277 | 0.402  | 0.490     | 0     | 1    |

Notes: The statistics are population weighted. The variables ‘First born same gender’, ‘First born of siblings’ and ‘First born is male’ all refer to children of the same father, same mother.
|                          | All         | Men         |         | Women        |         |
|--------------------------|-------------|-------------|---------|--------------|---------|
| Male                     | 0.110***    | 0.125***    | --      | --           | --      |
| Age                      | -0.00483    | -0.00273    | 0.00590 | 0.00678      | -0.00419 | -0.00269 |
| Age squared              | 4.71e-05    | 2.56e-05    | -5.81e-05 | -6.72e-05   | 4.06e-05 | 2.13e-05 |
| Muslim                   | 0.164***    | 0.162***    | 0.180*  | 0.157        | 0.162*** | 0.170*** |
| Serere ethnicity         | -0.0844**   | -0.0800**   | -0.0728 | -0.0647      | -0.100** | -0.0956** |
| Poular ethnicity         | 0.00432     | 0.00590     | 0.0396  | 0.0310       | -0.0311 | -0.0130  |
| Muslim                   | 0.0913      | 0.0726      | 0.182   | 0.166        | 0.0351  | 0.0425   |
| Other ethnicity          | -0.131**    | -0.131**    | -0.167* | -0.182*      | -0.103  | -0.0926  |
| Brothers same father     | 0.000819    | 0.00107     | -0.00473| -0.00532     | 0.00780 | 0.00817  |
| Brothers same parents    | -0.00323    | -0.00281    | -0.0129 | -0.0108      | 0.000203| 0.000777 |
| Sisters same father      | 0.0229***   | 0.0225***   | 0.0343**| 0.0379***    | 0.0133* | 0.0106   |
| Sisters same parents     | 0.0154**    | 0.0172**    | 0.0259**| 0.0264**     | 0.00998 | 0.0111   |
| Brothers same mother     | -0.0238*    | -0.0219*    | 0.000834| 0.00442      | -0.0395*| -0.0388* |
| Sisters same mother      | -0.0100     | -0.0127     | -0.0342 | -0.0361      | 0.000391 | -0.00178 |
| First same gender        | 0.0257      | 0.0219      | -0.0494 | -0.0496      | 0.0622* | 0.0645*  |
| First of siblings        | -0.000272   | -0.00876    | 0.0302  | 0.0322       | -0.0228 | -0.0409  |
| First born is male       | 0.0369      | 0.0322      | 0.0746  | 0.0600       | 0.0220  | 0.0103   |
| Father died recently     | -0.134***   | -0.140***   | -0.237***| -0.248***    | -0.0828*| -0.0779* |
| Father is dead           | 0.671***    | 0.664***    | 0.793***| 0.732***     | 0.630***| 0.621*** |
| Mother is dead           | 0.127***    | 0.133***    | 0.110** | 0.130**      | 0.139***| 0.138*** |
| Variable                  | Coefficient 1 | Coefficient 2 | Coefficient 3 | Coefficient 4 | Coefficient 5 | Coefficient 6 |
|---------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Father in farming         | -0.0210       | -0.0146       | 0.0400        | 0.0474        | -0.0426       | -0.0392       |
| (0.0291)                  | (0.0282)      | (0.0430)      | (0.0416)      | (0.0341)      | (0.0331)      |
| Mother in farm            | 0.0518        | 0.0588*       | 0.0258        | 0.0228        | 0.0641        | 0.0731*       |
| (0.0338)                  | (0.0330)      | (0.0524)      | (0.0514)      | (0.0408)      | (0.0397)      |
| Father in non-farm        | 0.0330        | 0.0460        | -0.00540      | 0.0121        | 0.0574        | 0.0651*       |
| (0.0330)                  | (0.0320)      | (0.0490)      | (0.0477)      | (0.0405)      | (0.0390)      |
| Mother in non-farm        | 0.0920**      | 0.0818**      | 0.123**       | 0.119**       | 0.0588        | 0.0484        |
| (0.0362)                  | (0.0351)      | (0.0510)      | (0.0501)      | (0.0439)      | (0.0414)      |
| Father in ‘other’         | -0.0138       | -0.0183       | 0.0648        | 0.0560        | -0.112        | -0.107        |
| (0.109)                   | (0.103)       | (0.124)       | (0.123)       | (0.135)       | (0.122)       |
| Mother in ‘other’         | 0.0355        | 0.0227        | -0.0786       | -0.0867       | 0.127         | 0.112         |
| (0.0825)                  | (0.0801)      | (0.102)       | (0.100)       | (0.128)       | (0.126)       |
| Father’s schooling        | 0.0220        | 0.0264        | 0.0682        | 0.0877        | 0.00642       | 0.00123       |
| (0.0395)                  | (0.0377)      | (0.0598)      | (0.0575)      | (0.0466)      | (0.0441)      |
| Mother’s schooling        | -0.0246       | 0.00139       | -0.156**      | -0.115        | 0.0332        | 0.0540        |
| (0.0491)                  | (0.0489)      | (0.0736)      | (0.0726)      | (0.0603)      | (0.0591)      |
| Father rural              | -0.0293       | -0.0415       | -0.113        | -0.152**      | 0.0146        | 0.0165        |
| (0.0465)                  | (0.0452)      | (0.0748)      | (0.0725)      | (0.0518)      | (0.0508)      |
| Mother rural              | 0.0680        | 0.0669        | 0.172**       | 0.174**       | 0.0196        | 0.0147        |
| (0.0457)                  | (0.0440)      | (0.0754)      | (0.0737)      | (0.0509)      | (0.0494)      |
| Log hh size               | 0.00423       | 0.00849       | 0.0284        | 0.0253        | -0.0140       | -0.0147       |
| (0.0216)                  | (0.0198)      | (0.0331)      | (0.0303)      | (0.0249)      | (0.0234)      |
| Log cell size             | 0.0469**      | 0.0426*       | 0.0711*       | 0.0671*       | 0.00828       | 0.0189        |
| (0.0232)                  | (0.0220)      | (0.0379)      | (0.0364)      | (0.0312)      | (0.0297)      |
| Share of cell aged<5      | -0.00584      | -0.00368      | -0.0423       | -0.0339       | -0.00915      | -0.0266       |
| (0.0792)                  | (0.0748)      | (0.161)       | (0.154)       | (0.0863)      | (0.0813)      |
| Share of cell adults      | 0.0184        | 0.0173        | 0.0767        | 0.0567        | -0.0371       | -0.0171       |
| (0.0592)                  | (0.0568)      | (0.107)       | (0.104)       | (0.0718)      | (0.0682)      |
| Has formal schooling      | 0.0605**      | --            | 0.0897**      | --            | 0.0475        | --            |
| (0.0294)                  | (0.0425)      | (0.0381)      | (0.0425)      | (0.0381)      |
| Fostered                  | 0.00479       | --            | -0.00501      | --            | -0.00848      | --            |
| (0.0396)                  | (0.0552)      | (0.0564)      | (0.0552)      | (0.0564)      |
| Fostered young            | 0.0238        | --            | 0.0686        | --            | -0.0113       | --            |
| (0.0533)                  | (0.0876)      | (0.0644)      | (0.0876)      | (0.0644)      |
| Age at first marriage     | 0.00155       | --            | 0.00362       | --            | -0.00240      | --            |
| (0.00222)                 | (0.00325)     | (0.00283)     | (0.00325)     | (0.00283)     |
| Rural                     | -0.00245      | -0.0173       | 0.0936        | 0.0808        | -0.0861*      | -0.0878*      |
| (0.0474)                  | (0.0450)      | (0.0702)      | (0.0661)      | (0.0520)      | (0.0494)      |

| Statistics                | Value         |
|---------------------------|---------------|
| No. Observations          | 3,383         |
| Pseudo R²                 | 0.369         |

Note: Robust standard errors in parentheses, clustered at the household level; *** p<0.01, ** p<0.05, * p<0.1. The variables ‘First same gender’, ‘First of siblings’ and ‘First born is male’ all refer to children of the same father, same mother. The regression also includes department fixed effects. The reference variables are Wolof ethnicity, all other religions, occupation ‘inactive’, share of cell members 5-15, no and non-formal schooling.
Table A3: Marginal determinants of the probability of land inheritance (also used as first stage regressions for IV estimators)

|                      | All            | Men            | Women           |
|----------------------|----------------|----------------|-----------------|
| **Male**             | 0.0814***      | 0.0840***      | --              |
|                      | (0.0182)       | (0.0150)       |                 |
| **Age**              | -0.00462*      | -0.00433*      | 7.91e-05        |
|                      | (0.00262)      | (0.00230)      | (0.00513)       |
| **Age squared**      | 4.93e-05**     | 4.82e-05**     | 9.50e-06        |
|                      | (2.45e-05)     | (2.18e-05)     | (4.61e-05)      |
| **Muslim**           | 0.0501**       | 0.0506**       | 0.0665          |
|                      | (0.0224)       | (0.0202)       | (0.0487)        |
| **Serere ethnicity** | 0.0313         | 0.0171         | 0.0974*         |
|                      | (0.0243)       | (0.0216)       | (0.0509)        |
| **Poular ethnicity** | -0.00435       | -0.00777       | 0.0293          |
|                      | (0.0180)       | (0.0168)       | (0.0347)        |
| **Diola ethnicity**  | 0.0475         | 0.0340         | 0.0159          |
|                      | (0.0552)       | (0.0497)       | (0.0790)        |
| **Mandingue ethnicity | 0.0320         | 0.0259         | 0.0611          |
|                      | (0.0312)       | (0.0288)       | (0.0601)        |
| **Sarakole ethnicity** | 0.00110       | -0.0101        | 0.0919          |
|                      | (0.0494)       | (0.0423)       | (0.124)         |
| **Mandiaque ethnicity** | 0.179         | 0.154          | 0.413           |
|                      | (0.198)        | (0.175)        | (0.296)         |
| **Other ethnicity**  | -0.0438        | -0.0377        | -0.0234         |
|                      | (0.0293)       | (0.0285)       | (0.0674)        |
| **Brothers same father** | 0.00739**    | 0.00623**      | 0.00837         |
|                      | (0.00325)      | (0.00309)      | (0.00673)       |
| **Brothers same parents** | -5.29e-06     | -0.00175       | -0.00145        |
|                      | (0.00393)      | (0.00371)      | (0.00841)       |
| **Sisters same father** | 0.00251       | 0.00499        | 0.0112          |
|                      | (0.00339)      | (0.00325)      | (0.00691)       |
| **Sisters same parents** | 0.00644*      | 0.00585*       | 0.0152**        |
|                      | (0.00373)      | (0.00347)      | (0.00751)       |
| **Brothers same mother** | -0.0173**     | -0.0188***     | 0.00313         |
|                      | (0.00734)      | (0.00716)      | (0.00167)       |
| **Sisters same mother** | -0.00739      | -0.00761       | -0.0207         |
|                      | (0.00798)      | (0.00753)      | (0.0168)        |
| **First same gender** | 0.0130         | 0.00945        | 0.00293         |
|                      | (0.0143)       | (0.0135)       | (0.0354)        |
| **First of siblings** | 0.00391        | 0.00301        | -0.00556        |
|                      | (0.0162)       | (0.0155)       | (0.0393)        |
| **First born is male** | 0.0169         | 0.0144         | 0.0492*         |
|                      | (0.0118)       | (0.0112)       | (0.0297)        |
| **Father died recently** | -0.0430***    | -0.0423***     | -0.0965***      |
|                      | (0.0154)       | (0.0142)       | (0.0299)        |
| **Father is dead**   | 0.319***       | 0.312***       | 0.418***        |
|                      | (0.0135)       | (0.0131)       | (0.0196)        |
| **Mother is dead**   | 0.0301*        | 0.0306**       | 0.0418          |
|                      | (0.0154)       | (0.0148)       | (0.0291)       |

* p < 0.1, ** p < 0.05, *** p < 0.01
|                                | Coef 1  | Coef 2  | Coef 3  | Coef 4  | Coef 5  | Coef 6 |
|--------------------------------|---------|---------|---------|---------|---------|---------|
| Father in farming              | -0.0145 | -0.0103 | 0.00332 | 0.0112  | -0.0146 | -0.0127 |
|                                | (0.0146)| (0.0139)| (0.0285)| (0.0286)| (0.0126)| (0.0112)|
| Mother in farm                 | 0.0477**| 0.0463**| 0.0869**| 0.0703* | 0.0259  | 0.0263* |
|                                | (0.0192)| (0.0184)| (0.0404)| (0.0389)| (0.0166)| (0.0151)|
| Father in non-farm             | -0.0584***| -0.0569***| -0.0839***| -0.0787***| -0.0388***| -0.0359***|
|                                | (0.0163)| (0.0153)| (0.0309)| (0.0305)| (0.0139)| (0.0124)|
| Mother in non-farm             | 0.00596 | 0.00769 | 0.00526 | 0.00582 | 0.00584 | 0.00407 |
|                                | (0.0212)| (0.0200)| (0.0422)| (0.0419)| (0.0179)| (0.0156)|
| Father in ‘other’              | -0.0443 | -0.0474 | -0.0227 | -0.0481 | -0.0384 | -0.0342 |
|                                | (0.0507)| (0.0451)| (0.144) | (0.123) | (0.0326)| (0.0293)|
| Mother in ‘other’              | -0.0351 | -0.0226 | -0.0616 | -0.0477 | -0.0198 | -0.0110 |
|                                | (0.0330)| (0.0348)| (0.0561)| (0.0624)| (0.0304)| (0.0306)|
| Father’s schooling             | 0.00167 | -0.00215| -0.0560 | -0.0503 | 0.0288  | 0.0179  |
|                                | (0.0244)| (0.0224)| (0.0416)| (0.0445)| (0.0265)| (0.0214)|
| Mother’s schooling             | 0.000504| -0.00889| -0.0490 | -0.0552 | 0.0176  | 0.00275 |
|                                | (0.0324)| (0.0275)| (0.0492)| (0.0469)| (0.0370)| (0.0273)|
| Father rural                   | 0.0259  | 0.0280  | -0.0101 | -0.0139 | 0.0287  | 0.0315* |
|                                | (0.0220)| (0.0209)| (0.0497)| (0.0496)| (0.0175)| (0.0161)|
| Mother rural                   | 0.0621***| 0.0616***| 0.105** | 0.108** | 0.0352* | 0.0294* |
|                                | (0.0213)| (0.0204)| (0.0454)| (0.0460)| (0.0181)| (0.0164)|
| Log hh size                    | 0.0298***| 0.0190* | 0.0535**| 0.0323  | 0.0118  | 0.00760 |
|                                | (0.0115)| (0.0103)| (0.0228)| (0.0217)| (0.00964)| (0.00820)|
| Log cell size                  | 0.00880 | 0.00894 | -0.00701| -0.0117 | 0.00308 | 0.00599 |
|                                | (0.0113)| (0.0104)| (0.0248)| (0.0244)| (0.0112)| (0.00960)|
| Share of cell aged<5           | -0.0760 |-0.0718*| -0.167  | -0.191  | -0.0428 | -0.0347 |
|                                | (0.0450)| (0.0415)| (0.130) | (0.126) | (0.0334)| (0.0285)|
| Share of cell adults           | -0.00608| -0.0150 | -0.0936 | -0.112  | -0.00196| -0.00760|
|                                | (0.0315)| (0.0295)| (0.0745)| (0.0728)| (0.0258)| (0.0224)|
| Has formal schooling           | -0.0235*| --      | -0.0247 | --      | -0.0205*| --      |
|                                | (0.0140)| (0.0276)| (0.0117)| (0.0177)| (0.0117)| (0.0244)|
| Fostered                       | 0.0491**| --      | 0.119***| --      | -0.0245 | --      |
|                                | (0.0232)| (0.0461)| (0.0167)| (0.0167)| (0.0167)| (0.0244)|
| Fostered young                 | -0.0477***| --      | -0.111***| --      | 0.0116  | --      |
|                                | (0.0199)| (0.0327)| (0.0292)| (0.0292)| (0.0292)| (0.0327)|
| Age at first marriage          | 9.53e-05| --      | 0.000723| --      | -0.000936| --      |
|                                | (0.00107)| (0.00199)| (0.00110)| (0.00110)| (0.00110)| (0.00110)|
| Rural                          | 0.00706 | 0.00681 | 0.0705  | 0.0744* | -0.0222 | -0.0166 |
|                                | (0.0237)| (0.0222)| (0.0454)| (0.0446)| (0.0187)| (0.0160)|

Note: Robust standard errors in parentheses, clustered at the household level; *** p<0.01, ** p<0.05, * p<0.1. The variables ‘First same gender’, ‘First of siblings’ and ‘First born is male’ all refer to children of the same father, same mother. Regressions also contain regional (department) dummies. The reference variables are Wolof ethnicity, all other religions, occupation ‘inactive’, share of cell members 5-15, no and non-formal schooling.
Table A4: Estimated effects of inheritance on log cell per capita consumption with and without controls for sample whose father is dead

|                        | (1)          | (2)          | (3)          |
|------------------------|--------------|--------------|--------------|
|                        | No controls  | Rural location and department dummies | As in (2) + controls for individual and household characteristics |
| Inherited land         | -0.337***    | -0.111**     | -0.0633      |
|                        | (0.0549)     | (0.0444)     | (0.0464)     |
| Inherited house        | 0.184***     | 0.0705*      | 0.0852**     |
|                        | (0.0475)     | (0.0390)     | (0.0407)     |
| Other inheritance      | 0.00414      | 0.0840*      | 0.0559       |
|                        | (0.0518)     | (0.0451)     | (0.0433)     |
| Constant               | 12.56***     | 12.87***     | 13.28***     |
|                        | (0.0367)     | (0.247)      | (0.445)      |
| Observations           | 2,852        | 2,852        | 2,302        |
| R²                     | 0.022        | 0.335        | 0.473        |
Table A5: Estimated effects of inheritance on log cell per capita consumption with and without controls for sample whose mother is dead.

|                      | (1)                  | (2)                  | (3)                  |
|----------------------|----------------------|----------------------|----------------------|
|                      | No controls          | Rural location and department dummies | As in (2) + controls for individual and household characteristics |
| Inherited land       | -0.357*** (0.0648)   | -0.159*** (0.0531)   | -0.105* (0.0548)     |
| Inherited house      | 0.162*** (0.0608)    | 0.0785 (0.0490)      | 0.0654 (0.0508)      |
| Other inheritance    | 0.0800 (0.0639)      | 0.136** (0.0550)     | 0.100* (0.0553)      |
| Constant             | 12.53*** (0.0434)    | 12.79*** (0.374)     | 13.44*** (0.452)     |
| Observations         | 1,708                | 1,708                | 1,407                |
| $R^2$                | 0.020                | 0.357                | 0.474                |
|                    | (1)          | (2)          | (3)          |
|--------------------|--------------|--------------|--------------|
|                    | No controls  | Rural location and department dummies | As in (2) + controls for individual and household characteristics |
| Inherited land     | -0.339***    | -0.107**     | -0.0653      |
|                    | (0.0542)     | (0.0434)     | (0.0453)     |
| Inherited house    | 0.181***     | 0.0641*      | 0.0710*      |
|                    | (0.0464)     | (0.0384)     | (0.0395)     |
| Other inheritance  | 0.0142       | 0.0905**     | 0.0681       |
|                    | (0.0504)     | (0.0440)     | (0.0429)     |
| Constant           | 12.56***     | 13.11***     | 13.42***     |
|                    | (0.0349)     | (0.387)      | (0.390)      |
| Observations       | 3,088        | 3,088        | 2,484        |
| $R^2$              | 0.020        | 0.334        | 0.467        |
Table A7: Regressions for log cell expenditure per capita on the sample for whom father is dead

|                                      | (1) Full sample | (2) Rural | (3) Urban | (4) Men | (5) Women |
|--------------------------------------|----------------|-----------|-----------|--------|-----------|
| Male                                 | -0.00494       | -0.0670   | 0.0578    | --     | --        |
| Age                                  | -0.00195       | -0.0113   | 0.00881   | 0.00426| -0.0137   |
| Age squared                          | -1.58e-06      | 5.55e-05  | -6.27e-05 | -6.72e-05| 0.000140  |
| Muslim                               | 0.0801         | 0.107     | 0.0264    | 0.0706 | 0.0411    |
| Serere ethnicity                     | -0.217***      | -0.233    | -0.220*** | -0.274***| -0.160*   |
| Poular ethnicity                     | -0.0723        | 0.0509    | -0.132*   | -0.123 | -0.0417   |
| Diola ethnicity                      | -0.157         | -0.199    | -0.112    | -0.00241| -0.326*** |
| Mandingue ethnicity                  | -0.0900        | 0.127     | -0.199**  | -0.161 | -0.0180   |
| Sarakole ethnicity                   | -0.180         | -0.129    | -0.156    | -0.246 | -0.134    |
| Mandiaque ethnicity                  | -0.394*        | -0.828*   | -0.321    | -0.254 | -0.540**  |
| Other ethnicity                      | -0.114         | 0.0134    | -0.176*   | -0.0624| -0.188    |
| Brothers same father                 | -0.00477       | -0.0243   | 0.00537   | -0.0126| 0.00359   |
| Brothers same parents                | 0.00136        | 0.0184    | -0.00951  | 0.0318*| -0.0278*  |
| Sisters same father                  | 0.0106         | 0.0200    | 0.00638   | 0.0172 | 0.00465   |
| Sisters same parents                 | 0.0278**       | 0.0373*   | 0.0221    | 0.0280 | 0.0345**  |
| Brothers same mother                 | 0.0907***      | 0.0669    | 0.0556**  | 0.0812**| 0.0491*   |
| Sisters same mother                  | -0.0449**      | -0.0332   | -0.0422*  | -0.0398| -0.0534*  |
| First same gender                    | 0.0266         | 0.0811    | -0.0261   | 0.0358 | 0.0434    |
| First of siblings                    | -0.00640       | -0.0217   | 0.0120    | -0.0620| 0.0408    |
| First born is male                   | 0.0731**       | 0.132**   | 0.0198    | 0.0835 | 0.0922*   |
| Father died recently                 | -0.0119        | -0.0120   | 0.0118    | 0.0302 | -0.0502   |
| Father in farming                    | 0.147***       | 0.112     | 0.195***  | 0.131* | 0.142**   |
| Mother in farm                       | -0.103*        | -0.107    | -0.0722   | -0.176**| -0.0755   |

Note: Standard errors in parentheses.
| Variable                     | Unstandardized Coefficient | Standardized Coefficient |
|------------------------------|----------------------------|--------------------------|
| Father in non-farm           | 0.238***                   | 0.334***                 |
|                              | (0.0535)                   | (0.0995)                 |
| Mother in non-farm           | -0.160***                  | -0.153                   |
|                              | (0.0554)                   | (0.0933)                 |
| Father in ‘other’            | 0.722**                    | 0.614**                  |
|                              | (0.293)                    | (0.285)                  |
| Mother in ‘other’            | -0.224*                    | 0.430***                 |
|                              | (0.127)                    | (0.132)                  |
| Father’s schooling           | 0.0835                     | 0.130*                   |
|                              | (0.0634)                   | (0.118)                  |
| Mother’s schooling           | 0.0664                     | 0.0640                   |
|                              | (0.0693)                   | (0.120)                  |
| Father rural                 | 0.0254                     | -0.0198                  |
|                              | (0.0611)                   | (0.102)                  |
| Mother rural                 | -0.0754                    | -0.0820                  |
|                              | (0.0610)                   | (0.103)                  |
| Log hh size                  | -0.292***                  | -0.250***                |
|                              | (0.0423)                   | (0.0730)                 |
| Log cell size                | -0.110***                  | -0.102*                  |
|                              | (0.0331)                   | (0.0506)                 |
| Share of cell aged<5         | -0.142                     | -0.504*                  |
|                              | (0.131)                    | (0.169)                  |
| Share of cell adults         | 0.446***                   | 0.410*                   |
|                              | (0.0939)                   | (0.148)                  |
| Has formal schooling         | 0.278***                   | 0.223***                 |
|                              | (0.0428)                   | (0.0778)                 |
| Fostered                     | 0.160**                    | 0.156                    |
|                              | (0.0650)                   | (0.0881)                 |
| Fostered young               | -0.0791                    | -0.504*                  |
|                              | (0.0796)                   | (0.129)                  |
| Age at first marriage        | -0.00204                   | -0.00331                 |
|                              | (0.00327)                  | (0.00434)                |
| Inherited land               | -0.0633                    | -0.0983                  |
|                              | (0.0464)                   | (0.0712)                 |
| Inherited house              | 0.0852**                   | 0.124**                  |
|                              | (0.0407)                   | (0.0688)                 |
| Other inheritance            | 0.0559                     | 0.102*                   |
|                              | (0.0433)                   | (0.0607)                 |
| Rural                        | -0.274***                  | -0.299***                |
|                              | (0.0683)                   | (0.0951)                 |
| Constant                     | 13.28***                   | 13.29***                 |
|                              | (0.445)                    | (0.500)                  |

Observations: 2,302
R²: 0.473

Note: Robust standard errors in parentheses, clustered at the household level. *** p<0.01, ** p<0.05, * p<0.1. The variables ‘First same gender’, ‘First of siblings’ and ‘First born is male’ refer to children of the same father, same mother. Regressions contain department dummies. Reference variables are Wolof ethnicity, other religions, occupation ‘inactive’, share of cell members 5-15, no & non-formal schooling.
Table A8: Regressions for log cell expenditure per capita, sample whose mother is dead

|                      | (1) Full sample | (2) Rural | (3) Urban | (4) Men | (5) Women |
|----------------------|-----------------|-----------|-----------|---------|-----------|
| Male                 | -0.0166         | -0.0921   | -0.00706  | --      | --        |
| (0.0683)             | (0.0925)        | (0.102)   |           |         |           |
| Age                  | -0.0189*        | -0.0249** | -0.0172   | -0.0113 | -0.0297** |
| (0.0110)             | (0.0120)        | (0.0207)  | (0.0166)  | (0.0150) |           |
| Age squared          | 0.000128        | 0.000170  | 0.000137  | 4.36e-05| 0.000265* |
| (9.78e-05)           | (0.000104)      | (0.000183)| (0.000147)| (0.000136)|           |
| Muslim               | -0.00580        | -0.128    | 0.0423    | 0.0271  | -0.00366  |
| (0.139)              | (0.246)         | (0.159)   | (0.184)   | (0.149) |           |
| Serere ethnicity     | -0.157          | -0.153    | -0.244**  | -0.222* | -0.0550   |
| (0.105)              | (0.212)         | (0.107)   | (0.130)   | (0.127) |           |
| Poular ethnicity     | 0.0255          | 0.132     | -0.0385   | 0.0950  | 0.119     |
| (0.0809)             | (0.146)         | (0.0919)  | (0.112)   | (0.104) |           |
| Diola ethnicity      | -0.225          | -0.411    | -0.138    | -0.283  | -0.182    |
| (0.140)              | (0.446)         | (0.146)   | (0.217)   | (0.157) |           |
| Mandingue ethnicity  | -0.00474        | 0.287     | -0.155    | -0.0671 | 0.0726    |
| (0.127)              | (0.228)         | (0.124)   | (0.150)   | (0.166) |           |
| Sarakole ethnicity   | -0.200          | 0.110     | -0.227    | -0.485* | 0.000947  |
| (0.198)              | (0.282)         | (0.293)   | (0.258)   | (0.284) |           |
| Mandiaque ethnicity  | -0.546**        | -0.912*   | -0.420    | -0.503  | -0.541**  |
| (0.252)              | (0.550)         | (0.274)   | (0.335)   | (0.264) |           |
| Other ethnicity      | -0.138          | 0.107     | -0.285*   | -0.141  | -0.163    |
| (0.160)              | (0.279)         | (0.148)   | (0.204)   | (0.223) |           |
| Brothers same father | -0.0174         | -0.0557***| 0.0161    | -0.0153 | -0.0204   |
| (0.0158)             | (0.0201)        | (0.0228)  | (0.0278)  | (0.0186) |           |
| Brothers same parents| -0.00809        | 0.0147    | -0.0256   | -0.0252 | -0.0287   |
| (0.0181)             | (0.0269)        | (0.0240)  | (0.0293)  | (0.0245) |           |
| Sisters same father  | 0.0269*         | 0.0519**  | 0.00299   | 0.0310  | 0.0311    |
| (0.0157)             | (0.0212)        | (0.0217)  | (0.0238)  | (0.0203) |           |
| Sisters same parents | 0.0306*         | 0.0337    | 0.0362    | 0.0409* | 0.0494**  |
| (0.0161)             | (0.0232)        | (0.0243)  | (0.0232)  | (0.0246) |           |
| Brothers same mother | 0.0227          | 0.0320    | 0.0168    | 0.0607  | -0.0144   |
| (0.0300)             | (0.0437)        | (0.0430)  | (0.0398)  | (0.0492) |           |
| Sisters same mother  | -0.00382        | -0.0450   | 0.0444    | -0.109***| 0.0482    |
| (0.0396)             | (0.0363)        | (0.0677)  | (0.0404)  | (0.0604) |           |
| First same gender    | -0.0189         | -0.0245   | 0.0396    | -0.0256 | 0.0295    |
| (0.0529)             | (0.0739)        | (0.0800)  | (0.0900)  | (0.0897) |           |
| First of siblings    | 0.0823          | 0.132     | 0.0194    | -0.0255 | 0.144     |
| (0.0634)             | (0.0895)        | (0.0842)  | (0.0979)  | (0.112)  |           |
| First born is male   | 0.0773          | 0.150**   | 0.0152    | 0.157*  | 0.0799    |
| (0.0470)             | (0.0680)        | (0.0657)  | (0.0881)  | (0.0730) |           |
| Father died recently | 0.0597          | -0.0720   | 0.210     | 0.117   | -0.0114   |
| (0.0885)             | (0.105)         | (0.151)   | (0.149)   | (0.103)  |           |
| Father in farming    | 0.0710          | 0.0315    | 0.134     | -0.0428 | 0.174**   |
| (0.0611)             | (0.0840)        | (0.0895)  | (0.0835)  | (0.0871) |           |
| Mother in farm       | -0.0780         | -0.0483   | -0.0601   | -0.0891 | -0.0984   |
| (0.0694)             | (0.0911)        | (0.0949)  | (0.0904)  | (0.0968) |           |
| Variable                          | Coefficient 1 | Coefficient 2 | Coefficient 3 | Coefficient 4 | Coefficient 5 |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|
| Father in non-farm              | 0.220***      | 0.212*        | 0.197***      | 0.214**       | 0.216**       |
|                                  | (0.0698)      | (0.123)       | (0.0887)      | (0.0943)      | (0.0980)      |
| Mother in non-farm              | -0.131        | 0.242*        | -0.292***     | -0.0850       | -0.142        |
|                                  | (0.0827)      | (0.144)       | (0.111)       | (0.140)       | (0.107)       |
| Father in ‘other’               | 0.604*        | -0.186        | 0.802*        | 0.243         | 1.140         |
|                                  | (0.350)       | (0.235)       | (0.473)       | (0.360)       | (0.720)       |
| Mother in ‘other’               | 0.0389        | -0.126        | 0.466***      | 0.507*        | -0.162        |
|                                  | (0.311)       | (0.458)       | (0.131)       | (0.269)       | (0.413)       |
| Father’s schooling              | 0.174*        | 0.225         | 0.0996        | 0.263*        | 0.134         |
|                                  | (0.0961)      | (0.163)       | (0.107)       | (0.151)       | (0.128)       |
| Mother’s schooling              | 0.296*        | 0.258         | 0.376*        | 0.102         | 0.470         |
|                                  | (0.158)       | (0.164)       | (0.217)       | (0.152)       | (0.290)       |
| Father rural                    | -0.0157       | -0.00662      | -0.103        | -0.137        | 0.0629        |
|                                  | (0.0849)      | (0.144)       | (0.108)       | (0.146)       | (0.110)       |
| Mother rural                    | 0.0425        | 0.202         | 0.0376        | 0.172         | -0.00211      |
|                                  | (0.0863)      | (0.148)       | (0.116)       | (0.150)       | (0.109)       |
| Log hh size                     | -0.257***     | -0.207**      | -0.297***     | -0.251***     | -0.262***     |
|                                  | (0.0520)      | (0.0835)      | (0.0603)      | (0.0720)      | (0.0635)      |
| Log cell size                   | -0.0958**     | -0.119*       | -0.0816       | -0.0970       | -0.0723       |
|                                  | (0.0445)      | (0.0645)      | (0.0602)      | (0.0779)      | (0.0702)      |
| Share of cell aged<5            | -0.564***     | -0.601***     | -0.494        | -0.933**      | -0.483**      |
|                                  | (0.186)       | (0.221)       | (0.329)       | (0.411)       | (0.235)       |
| Share of cell adults            | 0.340***      | 0.211         | 0.425**       | 0.198         | 0.409***      |
|                                  | (0.118)       | (0.164)       | (0.168)       | (0.236)       | (0.152)       |
| Has formal schooling            | 0.265***      | 0.114         | 0.323***      | 0.154*        | 0.371***      |
|                                  | (0.0575)      | (0.102)       | (0.0685)      | (0.0806)      | (0.0924)      |
| Fostered                        | 0.150*        | 0.125         | 0.139         | 0.264**       | 0.0346        |
|                                  | (0.0788)      | (0.102)       | (0.117)       | (0.115)       | (0.122)       |
| Fostered young                  | 0.0866        | 0.140         | 0.0785        | -0.0492       | 0.196         |
|                                  | (0.107)       | (0.161)       | (0.149)       | (0.187)       | (0.139)       |
| Age at first marriage           | 0.000842      | 0.00586       | -0.000891     | -0.00300      | 0.00667       |
|                                  | (0.00389)     | (0.00603)     | (0.00537)     | (0.00525)     | (0.00568)     |
| Inherited land                  | -0.105*       | -0.0766       | -0.126*       | -0.177**      | -0.0200       |
|                                  | (0.0548)      | (0.0848)      | (0.0726)      | (0.0756)      | (0.0768)      |
| Inherited house                 | 0.0654        | 0.146*        | 0.0182        | 0.0821        | 0.0342        |
|                                  | (0.0508)      | (0.0780)      | (0.0691)      | (0.0738)      | (0.0697)      |
| Other inheritance              | 0.100*        | 0.114         | 0.142*        | 0.195***      | -0.0234       |
|                                  | (0.0553)      | (0.0758)      | (0.0770)      | (0.0733)      | (0.0737)      |
| Rural                           | -0.374***     | -0.428***     | -0.364***     | -0.0200       | -0.0200       |
|                                  | (0.0787)      | (0.114)       | (0.100)       | (0.114)       | (0.100)       |
| Constant                        | 13.44***      | 13.35***      | 13.28***      | 13.22***      | 13.61***      |
|                                  | (0.452)       | (0.671)       | (0.641)       | (0.782)       | (0.782)       |

Observations: 1,407
R²: 0.474

Note: Robust st. errors in parentheses, clustered at the household level. *** p<0.01, ** p<0.05, * p<0.1.
The variables ‘First same gender’, ‘First of siblings’ and ‘First born is male’ refer to children of same father, same mother. Regressions contain department dummies. Reference variables are Wolof ethnicity, other religions, occupation ‘inactive’, share of cell members 5-15, no & non-formal schooling.
Table A9: Regressions for log cell expenditure per capita: sample with mother or father dead

|                        | (1) Full sample | (2) Rural        | (3) Urban         | (4) Men          | (5) Women        |
|------------------------|-----------------|------------------|-------------------|-----------------|-----------------|
| Male                   | -0.0102         | -0.0624          | 0.0244            | ---             | ---             |
|                        | (0.0478)        | (0.0695)         | (0.0663)          | ---             | ---             |
| Age                    | -0.00524        | -0.0131          | 0.00453           | 0.00665         | -0.0204*        |
|                        | (0.00766)       | (0.00877)        | (0.0127)          | (0.0114)        | (0.0105)        |
| Age squared            | 2.45e-05        | 7.69e-05         | -4.09e-05         | -9.12e-05       | 0.000196*       |
|                        | (7.32e-05)      | (8.44e-05)       | (0.000121)        | (0.000105)      | (0.000104)      |
| Muslim                 | 0.0438          | -0.0626          | 0.0816            | 0.0386          | 0.0202          |
|                        | (0.107)         | (0.200)          | (0.117)           | (0.150)         | (0.113)         |
| Serere ethnicity       | -0.207***       | -0.229           | -0.220***         | -0.283***       | -0.136          |
|                        | (0.0745)        | (0.150)          | (0.0769)          | (0.0939)        | (0.0877)        |
| Poular ethnicity       | -0.0489         | 0.0621           | -0.107            | -0.0950         | -0.0164         |
|                        | (0.0628)        | (0.111)          | (0.0737)          | (0.0794)        | (0.0719)        |
| Diola ethnicity        | -0.176*         | -0.263           | -0.116            | -0.00646        | -0.304***       |
|                        | (0.106)         | (0.378)          | (0.113)           | (0.170)         | (0.107)         |
| Mandingue ethnicity    | -0.0884         | 0.151            | -0.217**          | -0.167          | -0.0208         |
|                        | (0.100)         | (0.183)          | (0.0872)          | (0.108)         | (0.120)         |
| Sarakole ethnicity     | -0.180          | -0.104           | -0.153            | -0.223          | -0.139          |
|                        | (0.137)         | (0.203)          | (0.188)           | (0.180)         | (0.170)         |
| Mandojaque ethnicity   | -0.386*         | -0.775*          | -0.290            | -0.267          | -0.464*         |
|                        | (0.213)         | (0.454)          | (0.208)           | (0.224)         | (0.254)         |
| Other ethnicity        | -0.108          | 0.0465           | -0.193*           | -0.0313         | -0.186          |
|                        | (0.113)         | (0.213)          | (0.101)           | (0.153)         | (0.141)         |
| Brothers same father   | -0.00480        | -0.0253*         | 0.00490           | -0.00685        | -0.00315        |
|                        | (0.0102)        | (0.0143)         | (0.0148)          | (0.0165)        | (0.0131)        |
| Brothers same parents  | 0.00174         | 0.0208           | -0.0117           | 0.0269          | -0.0255*        |
|                        | (0.0113)        | (0.0175)         | (0.0150)          | (0.0181)        | (0.0144)        |
| Sisters same father    | 0.0124          | 0.0206           | 0.00857           | 0.0115          | 0.0135          |
|                        | (0.0105)        | (0.0163)         | (0.0137)          | (0.0166)        | (0.0129)        |
| Sisters same parents   | 0.0282**        | 0.0373**         | 0.0248            | 0.0231          | 0.0420**        |
|                        | (0.0116)        | (0.0188)         | (0.0155)          | (0.0167)        | (0.0166)        |
| Brothers same mother   | 0.0498**        | 0.0559           | 0.0431            | 0.0886***       | 0.0241          |
|                        | (0.0222)        | (0.0390)         | (0.0265)          | (0.0305)        | (0.0288)        |
| Sisters same mother    | -0.0221         | -0.0199          | -0.0155           | -0.0389         | -0.0153         |
|                        | (0.0245)        | (0.0330)         | (0.0348)          | (0.0367)        | (0.0340)        |
| First same gender      | 0.0205          | 0.0563           | -0.00534          | 0.00243         | 0.0686          |
|                        | (0.0365)        | (0.0513)         | (0.0504)          | (0.0678)        | (0.0556)        |
| First of siblings      | 0.0136          | -0.0126          | 0.0384            | -0.0260         | 0.0479          |
|                        | (0.0442)        | (0.0603)         | (0.0611)          | (0.0753)        | (0.0743)        |
| First born is male     | 0.0745**        | 0.142***         | 0.0130            | 0.0726          | 0.0948*         |
|                        | (0.0363)        | (0.0523)         | (0.0480)          | (0.0703)        | (0.0491)        |
| Father died recently   | -0.0200         | -0.0163          | -0.00594          | 0.0260          | -0.0636         |
|                        | (0.0541)        | (0.0763)         | (0.0756)          | (0.101)         | (0.0613)        |
| Father in farming      | 0.132***        | 0.0947           | 0.176**           | 0.0873          | 0.153**         |
|                        | (0.0480)        | (0.0648)         | (0.0704)          | (0.0645)        | (0.0597)        |
| Mother in farm         | -0.104**        | -0.119*          | -0.0279           | -0.175**        | -0.0689         |
|                        | (0.0528)        | (0.0710)         | (0.0719)          | (0.0709)        | (0.0644)        |
|                          | Coefficient 1 | Coefficient 2 | Coefficient 3 | Coefficient 4 | Coefficient 5 |
|--------------------------|--------------|--------------|--------------|--------------|--------------|
| Father in non-farm       | 0.217***     | 0.270***     | 0.200***     | 0.223***     | 0.204***     |
|                         | (0.0514)     | (0.0950)     | (0.0625)     | (0.0713)     | (0.0650)     |
| Mother in non-farm       | -0.183***    | -0.123       | -0.201***    | -0.216***    | -0.147**     |
|                         | (0.0545)     | (0.0888)     | (0.0705)     | (0.0880)     | (0.0644)     |
| Father in ‘other’        | 0.448*       | -0.111       | 0.508*       | 0.453        | 0.488        |
|                         | (0.248)      | (0.302)      | (0.289)      | (0.317)      | (0.429)      |
| Mother in ‘other’        | -0.210*      | -0.202       | 0.448***     | -0.241*      | -0.127       |
|                         | (0.124)      | (0.130)      | (0.110)      | (0.136)      | (0.267)      |
| Father’s schooling       | 0.109*       | -0.0784      | 0.124*       | 0.168*       | 0.0854       |
|                         | (0.0629)     | (0.119)      | (0.0700)     | (0.0983)     | (0.0765)     |
| Mother’s schooling       | 0.0868       | 0.0616       | 0.119        | -0.0385      | 0.202        |
|                         | (0.0833)     | (0.120)      | (0.112)      | (0.106)      | (0.129)      |
| Father rural             | 0.0227       | 0.0806       | -0.0412      | 0.0512       | -0.0107      |
|                         | (0.0596)     | (0.0974)     | (0.0785)     | (0.103)      | (0.0704)     |
| Mother rural             | -0.0652      | -0.0412      | -0.0661      | -0.0641      | -0.0525      |
|                         | (0.0595)     | (0.0983)     | (0.0804)     | (0.107)      | (0.0699)     |
| Log hh size              | -0.294***    | -0.270***    | -0.311***    | -0.274***    | -0.315***    |
|                         | (0.0414)     | (0.0724)     | (0.0465)     | (0.0540)     | (0.0499)     |
| Log cell size            | -0.113***    | -0.176***    | -0.0871**    | -0.108*      | -0.0666      |
|                         | (0.0319)     | (0.0469)     | (0.0424)     | (0.0573)     | (0.0513)     |
| Share of cell aged<5     | -0.222*      | -0.250       | -0.156       | -0.478*      | -0.155       |
|                         | (0.124)      | (0.161)      | (0.182)      | (0.252)      | (0.153)      |
| Share of cell adults     | 0.417***     | 0.214        | 0.549***     | 0.391*       | 0.463***     |
|                         | (0.0909)     | (0.136)      | (0.119)      | (0.168)      | (0.117)      |
| Has formal schooling     | 0.276***     | 0.131*       | 0.327***     | 0.224***     | 0.318***     |
|                         | (0.0427)     | (0.0748)     | (0.0522)     | (0.0597)     | (0.0596)     |
| Fostered                 | 0.141**      | 0.161*       | 0.132        | 0.204**      | 0.0387       |
|                         | (0.0604)     | (0.0837)     | (0.0879)     | (0.0894)     | (0.0764)     |
| Fostered young           | -0.0488      | -0.108       | -0.0420      | -0.183       | 0.0795       |
|                         | (0.0760)     | (0.121)      | (0.103)      | (0.136)      | (0.0954)     |
| Age at first marriage    | -0.00143     | -9.42e-05    | -0.00102     | -0.00296     | 0.000270     |
|                         | (0.00316)    | (0.00478)    | (0.00415)    | (0.00452)    | (0.00441)    |
| Inherited land           | -0.0653      | -0.0114      | -0.0939      | -0.101       | -0.0204      |
|                         | (0.0453)     | (0.0706)     | (0.0597)     | (0.0637)     | (0.0539)     |
| Inherited house          | 0.0710*      | 0.0684       | 0.0887*      | 0.0680       | 0.0742       |
|                         | (0.0395)     | (0.0671)     | (0.0490)     | (0.0574)     | (0.0493)     |
| Other inheritance       | 0.0681       | 0.0284       | 0.121*       | 0.178***     | -0.0367      |
|                         | (0.0429)     | (0.0583)     | (0.0629)     | (0.0581)     | (0.0528)     |
| Rural                   | -0.282***    | -0.344***    | -0.257***    | -0.344***    | -0.257***    |
|                         | (0.0677)     | (0.0937)     | (0.0791)     | (0.0937)     | (0.0791)     |
| Constant                | 13.03***     | 12.74***     | 12.56***     | 12.76***     | 13.63***     |
|                         | (0.315)      | (0.535)      | (0.380)      | (0.521)      | (0.433)      |

Observations: 2,484 1,257 1,227 1,168 1,316
R^2: 0.467 0.295 0.411 0.478 0.471

Note: Robust st. errors in parentheses, clustered at the h’hold level. *** p<0.01, ** p<0.05, * p<0.1. The variables ‘First same gender’, ‘First of siblings’ and ‘First born is male’ refer to children of the same father, same mother. Regressions contain department dummies. Reference variables are Wolof ethnicity, all other religions, occupation ‘inactive’, share of cell members 5-15, no and non-formal schooling.
|                         | (1) Full sample | (2) Rural    | (3) Urban    | (4) Men    | (5) Women |
|-------------------------|----------------|--------------|--------------|------------|-----------|
| **Male**                |                |              |              |            |           |
| Male                    | 0.00966        | -0.0258      | 0.0366       |            |           |
|                         | (0.0404)       | (0.0603)     | (0.0555)     |            |           |
| **Age**                 |                |              |              |            |           |
| Age                     | -0.00121       | -0.00385     | 0.00374      | 0.00845    | -0.0141*  |
|                         | (0.00618)      | (0.00755)    | (0.00985)    | (0.00989)  | (0.00818) |
| Age squared             | -2.21e-05      | -1.95e-05    | -4.06e-05    | -0.000124  | 0.000130  |
|                         | (6.17e-05)     | (7.55e-05)   | (9.76e-05)   | (9.35e-05) | (8.57e-05) |
| **Muslim**             |               |              |              |            |           |
| Muslim                  | 0.0687         | -0.105       | 0.139        | 0.103      | 0.0500    |
|                         | (0.0960)       | (0.202)      | (0.103)      | (0.126)    | (0.103)   |
| **Serere ethnicity**    |               |              |              |            |           |
| Serere ethnicity        | -0.175***      | -0.186       | -0.173**     | -0.228***  | -0.128*   |
|                         | (0.0620)       | (0.120)      | (0.0679)     | (0.0830)   | (0.0686)  |
| **Pouar ethnicity**     |               |              |              |            |           |
| Pouar ethnicity         | -0.0477        | 0.0590       | -0.0978      | -0.0765    | -0.0203   |
|                         | (0.0519)       | (0.0851)     | (0.0643)     | (0.0675)   | (0.0539)  |
| **Diola ethnicity**     |               |              |              |            |           |
| Diola ethnicity         | -0.157         | -0.186       | -0.0984      | 0.0162     | -0.254*** |
|                         | (0.100)        | (0.370)      | (0.102)      | (0.153)    | (0.0976)  |
| **Mandingue ethnicity** |               |              |              |            |           |
| Mandingue ethnicity     | -0.0968        | 0.160        | -0.243***    | -0.160     | -0.0506   |
|                         | (0.0871)       | (0.162)      | (0.0784)     | (0.100)    | (0.0959)  |
| **Sarakole ethnicity**  |               |              |              |            |           |
| Sarakole ethnicity      | -0.107         | 0.0369       | -0.122       | -0.180     | -0.0362   |
|                         | (0.127)        | (0.241)      | (0.166)      | (0.179)    | (0.142)   |
| **Mandiaque ethnicity** |               |              |              |            |           |
| Mandiaque ethnicity     | -0.433***      | -0.647*      | -0.357*      | -0.173     | -0.545*** |
|                         | (0.185)        | (0.376)      | (0.193)      | (0.225)    | (0.199)   |
| **Other ethnicity**     |               |              |              |            |           |
| Other ethnicity         | -0.0107        | 0.146        | -0.136       | 0.0797     | -0.101    |
|                         | (0.109)        | (0.180)      | (0.113)      | (0.141)    | (0.118)   |
| **Brothers same father**|               |              |              |            |           |
| Brothers same father    | -0.00139       | -0.0117      | 0.00330      | 0.00137    | -0.00306  |
|                         | (0.00770)      | (0.0104)     | (0.0112)     | (0.0132)   | (0.00969) |
| **Brothers same parents**|             |              |              |            |           |
| Brothers same parents   | 0.000624       | 0.00980      | -0.00784     | 0.0158     | -0.0141   |
|                         | (0.00936)      | (0.0128)     | (0.0131)     | (0.0145)   | (0.0118)  |
| **Sisters same father** |               |              |              |            |           |
| Sisters same father     | 0.0127         | 0.0219*      | 0.00620      | 0.000495   | 0.0221**  |
|                         | (0.00782)      | (0.0120)     | (0.0105)     | (0.0136)   | (0.00970) |
| **Sisters same parents**|          |              |              |            |           |
| Sisters same parents    | 0.0184**       | 0.0273*      | 0.0142       | 0.0105     | 0.0303*** |
|                         | (0.00904)      | (0.0141)     | (0.0122)     | (0.0140)   | (0.0117)  |
| **Brothers same mother**|               |              |              |            |           |
| Brothers same mother    | 0.0436**       | 0.0311       | 0.0461**     | 0.0748***  | 0.0232    |
|                         | (0.0179)       | (0.0319)     | (0.0216)     | (0.0252)   | (0.0230)  |
| **Sisters same mother** |               |              |              |            |           |
| Sisters same mother     | -0.0284        | -0.0289      | -0.0223      | -0.0412    | -0.0222   |
|                         | (0.0207)       | (0.0267)     | (0.0297)     | (0.0285)   | (0.0290)  |
| **First same gender**   |               |              |              |            |           |
| First same gender       | -0.00352       | 0.0372       | -0.0433      | -0.0195    | 0.0173    |
|                         | (0.0317)       | (0.0443)     | (0.0443)     | (0.0590)   | (0.0452)  |
| **First of siblings**  |               |              |              |            |           |
| First of siblings       | 0.0144         | -0.0148      | 0.0490       | -0.0280    | 0.0760    |
|                         | (0.0379)       | (0.0514)     | (0.0534)     | (0.0646)   | (0.0624)  |
| **First born is male**  |               |              |              |            |           |
| First born is male      | 0.0585*        | 0.112**      | -0.0108      | 0.0326     | 0.0935**  |
|                         | (0.0306)       | (0.0433)     | (0.0405)     | (0.0615)   | (0.0412)  |
| **Father died recently**|               |              |              |            |           |
| Father died recently    | -0.0104        | 0.0183       | -0.0237      | 0.0308     | -0.0350   |
|                         | (0.0532)       | (0.0761)     | (0.0734)     | (0.0988)   | (0.0582)  |
| **Father in farming**   |               |              |              |            |           |
| Father in farming       | 0.0980**       | 0.0673       | 0.121*       | 0.0712     | 0.105**   |
|                         | (0.0415)       | (0.0532)     | (0.0651)     | (0.0562)   | (0.0490)  |
| **Mother in farm**      |               |              |              |            |           |
| Mother in farm          | -0.0720        | -0.0920      | 0.00383      | -0.0776    | -0.0733   |
|                         | (0.0450)       | (0.0591)     | (0.0663)     | (0.0611)   | (0.0540)  |
| **Father in non-farm**  |               |              |              |            |           |
| Father in non-farm      | 0.164***       | 0.155**      | 0.168***     | 0.182***   | 0.137***  |
|                     | Estimate 1 | Estimate 2 | Estimate 3 | Estimate 4 | Estimate 5 |
|---------------------|-----------|-----------|-----------|-----------|-----------|
| Mother in non-farm  | -0.116*** | -0.0542   | -0.135**  | -0.155**  | -0.0799   |
|                     | (0.0440)  | (0.0681)  | (0.0573)  | (0.0689)  | (0.0523)  |
| Father in ‘other’   | 0.377**   | 0.135     | 0.534**   | 0.398**   | 0.361     |
|                     | (0.147)   | (0.180)   | (0.239)   | (0.199)   | (0.241)   |
| Mother in ‘other’   | -0.247*** | -0.213**  | 0.0287    | -0.210*   | -0.333**  |
|                     | (0.0934)  | (0.102)   | (0.244)   | (0.124)   | (0.158)   |
| Father’s schooling  | 0.079     | -0.0833   | 0.0988*   | 0.149*    | 0.0295    |
|                     | (0.0491)  | (0.0891)  | (0.0561)  | (0.0793)  | (0.0591)  |
| Mother’s schooling  | 0.162***  | 0.101     | 0.220***  | 0.0356    | 0.242***  |
|                     | (0.0633)  | (0.0934)  | (0.0826)  | (0.0870)  | (0.0902)  |
| Father rural        | 0.00279   | -0.0321   | -0.00972  | 0.0539    | -0.0375   |
|                     | (0.0503)  | (0.0797)  | (0.0648)  | (0.0891)  | (0.0575)  |
| Mother rural        | -0.0717   | -0.0439   | -0.0797   | -0.137    | -0.0228   |
|                     | (0.0510)  | (0.0822)  | (0.0662)  | (0.0888)  | (0.0574)  |
| Log hh size         | -0.268*** | -0.246*** | -0.283*** | -0.244*** | -0.292*** |
|                     | (0.0364)  | (0.0631)  | (0.0416)  | (0.0486)  | (0.0416)  |
| Log cell size       | -0.130*** | -0.179*** | -0.123*** | -0.163*** | -0.0629   |
|                     | (0.0267)  | (0.0394)  | (0.0357)  | (0.0494)  | (0.0433)  |
| Share of cell aged<5| -0.112    | -0.132    | -0.0606   | -0.310    | -0.0677   |
|                     | (0.0964)  | (0.133)   | (0.144)   | (0.200)   | (0.113)   |
| Share of cell adults| 0.180**   | 0.0268    | 0.266**   | 0.167     | 0.200**   |
|                     | (0.0766)  | (0.115)   | (0.104)   | (0.144)   | (0.0982)  |
| Has formal schooling| 0.265***  | 0.149**   | 0.314***  | 0.218***  | 0.281***  |
|                     | (0.0356)  | (0.0631)  | (0.0432)  | (0.0525)  | (0.0455)  |
| Fostered            | 0.116**   | 0.142*    | 0.106     | 0.165**   | 0.0425    |
|                     | (0.0512)  | (0.0755)  | (0.0703)  | (0.0765)  | (0.0646)  |
| Fostered young      | 0.0101    | 0.0462    | -0.0147   | -0.157    | 0.101     |
|                     | (0.0658)  | (0.103)   | (0.0887)  | (0.116)   | (0.0824)  |
| Age at first marriage| 0.000280   | 0.00384   | -0.00138  | -0.00232  | 0.00442   |
|                     | (0.00273) | (0.00413) | (0.00357) | (0.00396) | (0.00379) |
| Inherited land      | -0.0759*  | -0.0348   | -0.0943   | -0.107*   | -0.0408   |
|                     | (0.0442)  | (0.0682)  | (0.0577)  | (0.0606)  | (0.0532)  |
| Inherited house     | 0.0748**  | 0.0649    | 0.0864*   | 0.0636    | 0.0880*   |
|                     | (0.0365)  | (0.0612)  | (0.0441)  | (0.0525)  | (0.0450)  |
| Other inheritance   | 0.0685*   | 0.0474    | 0.109*    | 0.163***  | -0.0158   |
|                     | (0.0415)  | (0.0552)  | (0.0611)  | (0.0556)  | (0.0508)  |
| Rural               | -0.276*** | -0.291*** | -0.273*** | -0.319*** | -0.273*** |
|                     | (0.0602)  | (0.0824)  | (0.0650)  | (0.0824)  | (0.0650)  |
| Constant            | 13.21***  | 13.62***  | 12.74***  | 13.88***  | 13.77***  |
|                     | (0.289)   | (0.484)   | (0.324)   | (0.496)   | (0.362)   |

Note: Robust st. errors in parentheses, clustered at the h’hold level. *** p<0.01, ** p<0.05, * p<0.1. The variables ‘First same gender’, ‘First of siblings’ and ‘First born is male’ refer to children of the same father, same mother. Regressions contain department dummies. Reference variables are Wolof ethnicity, all other religions, occupation ‘inactive’, share of cell members 5-15, no and non-formal schooling.
Table A11: Marginal effects of inheritance, schooling and parental characteristics on ag employment: sample with father or mother dead

|                        | (1) | (2) | (3) | (4) | (5) |
|------------------------|-----|-----|-----|-----|-----|
|                        | All | Rural | Urban | Men | Women |
| Father in farming      | 0.0106 | 0.00760 | -0.00157 | -0.0136 | 0.0304 |
|                        | (0.0190) | (0.0382) | (0.00929) | (0.0302) | (0.0210) |
| Mother in farm         | 0.0513* | 0.0771* | 0.0184 | 0.0545 | 0.0407 |
|                        | (0.0262) | (0.0468) | (0.0203) | (0.0398) | (0.0260) |
| Father in non-farm     | -0.0196 | -0.101* | 9.26e-05 | -0.0545 | 0.00509 |
|                        | (0.0248) | (0.0591) | (0.0100) | (0.0401) | (0.0317) |
| Mother in non-farm     | -0.101*** | -0.219*** | -0.0200*** | -0.125*** | -0.0696*** |
|                        | (0.0212) | (0.0622) | (0.00695) | (0.0386) | (0.0194) |
| Father in ‘other’      | -0.122*** | -0.287*** | -0.162*** | -0.0788*** |
|                        | (0.0163) | (0.0507) | (0.0302) | (0.0136) |
| Mother in ‘other’      | -0.00604 | -0.0216 | -0.00387 | 0.0345 | -0.0561*** |
|                        | (0.0349) | (0.0969) | (0.00961) | (0.0623) | (0.0206) |
| Father’s schooling     | -0.0796** | -0.185** | -0.0119 | -0.104** | -0.0533 |
|                        | (0.0334) | (0.0791) | (0.0150) | (0.0486) | (0.0389) |
| Mother’s schooling     | 0.0106 | 0.00760 | -0.00157 | -0.0136 | 0.0304 |
|                        | (0.0190) | (0.0382) | (0.00929) | (0.0302) | (0.0210) |
| Own schooling          | -0.0259 | -0.0660 | -0.00936 | -0.0707** | 0.0464 |
|                        | (0.0205) | (0.0534) | (0.00829) | (0.0314) | (0.0305) |
| Inherited land         | 0.0546** | 0.101** | 0.00372 | 0.0114 | 0.110*** |
|                        | (0.0221) | (0.0438) | (0.0107) | (0.0327) | (0.0335) |
| Inherited house        | 0.0205 | 0.0225 | 0.0157 | 0.0121 | 0.0215 |
|                        | (0.0197) | (0.0415) | (0.0103) | (0.0298) | (0.0223) |
| Inherited other        | -0.0406** | -0.0648** | -0.0137* | -0.0379 | -0.0239 |
|                        | (0.0181) | (0.0386) | (0.00730) | (0.0282) | (0.0190) |
| Observations           | 2.481 | 1.253 | 1.133 | 1.161 | 1.231 |
| Pseudo R²              | 0.323 | 0.218 | 0.270 | 0.314 | 0.400 |

Notes: Robust standard errors in parentheses, clustered at the household level; *** p<0.01, ** p<0.05, * p<0.1. Marginal effects are reported. The regressions include controls listed in Table 5 notes. The ‘other’ occupation drops out of the urban regressions as it is found only in rural areas.
Table 10(a): Marginal effects of inheritance, schooling and parental characteristics on non-agricultural employment, sample with father or mother dead

|                         | (1)  | (2)  | (3)  | (4)  | (5)  |
|-------------------------|------|------|------|------|------|
|                         | All  | Rural| Urban| Men  | Women|
| Father in farming       | 0.0983 | -0.0163 | 0.0541 | 0.0479 | -0.0169 |
|                         | (0.0324) | (0.0358) | (0.0412) | (0.0416) | (0.0425) |
| Mother in farm          | -0.0471 | -0.0347 | 0.00368 | -0.0819 | -0.00896 |
|                         | (0.0360) | (0.0377) | (0.0514) | (0.0511) | (0.0452) |
| Father in non-farm      | 0.0400 | 0.140** | -0.00127 | 0.0683 | 0.0232 |
|                         | (0.0350) | (0.0586) | (0.0375) | (0.0512) | (0.0478) |
| Mother in non-farm      | 0.182*** | 0.184** | 0.149*** | 0.180*** | 0.188*** |
|                         | (0.0384) | (0.0717) | (0.0327) | (0.0602) | (0.0490) |
| Father in ‘other’       | -0.111 | -0.113 | -0.0772 | -0.0648 | -0.0856 |
|                         | (0.141) | (0.147) | (0.168) | (0.165) | (0.189) |
| Mother in ‘other’       | -0.309*** | -0.196*** | -0.357*** | -0.418*** | -0.142 |
|                         | (0.0795) | (0.0443) | (0.0739) | (0.101) | (0.189) |
| Father’s schooling      | -0.0246 | -0.0937 | 0.0350 | -0.0279 | -0.0217 |
|                         | (0.0416) | (0.0632) | (0.0412) | (0.0707) | (0.0518) |
| Mother’s schooling      | 0.0126 | 0.193* | -0.0640 | 0.104 | -0.0567 |
|                         | (0.0640) | (0.114) | (0.0694) | (0.100) | (0.0703) |
| Own schooling           | 0.0790** | 0.0588 | 0.0601* | 0.154*** | 0.0117 |
|                         | (0.0307) | (0.0537) | (0.0319) | (0.0406) | (0.0404) |
| Inherited land          | -0.0131 | -0.000791 | 0.00551 | 0.00829 | -0.00440 |
|                         | (0.0328) | (0.0381) | (0.0424) | (0.0450) | (0.0438) |
| Inherited house         | -0.00395 | -0.0226 | -0.00237 | -0.0286 | 0.0121 |
|                         | (0.0296) | (0.0368) | (0.0352) | (0.0412) | (0.0372) |
| Inherited other         | 0.0397 | -0.0116 | 0.103*** | 0.00757 | 0.0813** |
|                         | (0.0284) | (0.0325) | (0.0328) | (0.0372) | (0.0377) |
| Observations            | 2,476 | 1,237 | 1,234 | 1,168 | 1,308 |
| Pseudo R²               | 0.225 | 0.173 | 0.158 | 0.281 | 0.190 |

Notes: Robust standard errors in parentheses, clustered at the household level; *** p<0.01, ** p<0.05, * p<0.1. Marginal effects are reported. The regressions include controls listed in Table 5.