

# First Evidence of Interdependences between Incomes of Family Members

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In this paper we study the relations between personal incomes and incomes of families with two adults in USA. We describe family income distributions using the simple two-parametric model. Assuming incomes of spouses are statistically independent of each other we obtain theoretical exponential income distributions for males and females. We show that these distributions are not coincident with distributions constructed based on the personal data. Obtained results indicate on statistical dependence between incomes of males and females in the families. We track changes and trends in data for years from 2001 to 2016.

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This article was originally published with incorrect form of Eq. (2). The correct form is given below:

$$P_2^*(x) = \frac{1}{a_M - a_F} \left[ \exp\left(-\frac{x}{a_M}\right) - \exp\left(-\frac{x}{a_F}\right) \right]. \quad (2)$$

Authors apologize for this error.

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