ADVANCED STUDIES IN ECONOMICS

DISSERTATION

Presented in Partial Fulfillment of the Requirements

for The Degree

Doctor of Philosophy, Ph.D.

By

James E Curtis, Jr.

......

2003

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Researchers have a long-standing interest in understanding the causes and consequences of inequality. One approach to analyzing inequality is to compare average economic choices from a classical theoretical framework. Another approach considers the impact of the formation of society, through statutes and institutions, on average economic outcomes.

James Curtis Jr uses applied econometrics, applied labor economics, applied theory and empirical data to provide results that we cannot reject the existence of a negatively bounded correlation between the duration of time from zero wage labor constraints and the magnitude of unexplained differences in wealth. Furthermore, James Curtis Jr promotes a concept of entrepreneurial education in economics.
Chapter 2: Applied Econometrics, Excerpts from Wealth Discrimination Theory, James E Curtis, Jr.

Definition of Econometrics

Econometrics "attempts to quantify economic reality and bridge the gap between the abstract world of economic theory and the real world of human activity. Econometrics allows us to examine data and quantify the actions of firms, consumers and governments" (Studenmund, p.3).

Economic Theory

Economic theory tells us about the anticipated direction (+/-) of changes in the economic environment. For example, theory suggests: An increase in income increases demand for goods; An increase in price decreases demand for goods.

Econometric Modeling

Econometric modeling allows us to measure the specific amount, or the magnitude of the change.

Consider following example: Let:

\[ c^* = \frac{a}{a+b} \frac{I}{p} \] (from utility maximization); Then

\[ \ln(c) = \ln\left(\frac{a}{a+b}\right) + \ln(I) - \ln(p) \] such that the econometric or regression model is

\[ \ln(c) = B_0 + B_1 \ln(I) - B_2 \ln(p) + error \]

Ordinary Least Squares, OLS

The line that "best fits" the data minimizes difference between the fitted line and the data. Let \( e_i \) be the difference between the one point on the line and one data point, then the smallest sum of \( e_i \)'s seems to produce the best fitted line. But the smallest sum of \( e_i \)'s can produce more than one estimate of the slope the line. Instead, by summing the square of each \( e_i \), we can obtain one estimate of the slope. Hence, the line that "best fits" the data is a "least squares" regression line that minimizes the sum of squared error.

Figure 3. The Fitted Line from the Hypothetical Survey which Minimizes the sum of Squared Error

From utility maximization

Source: Data Analysis from James Curtis Jr (2001)
c* = \[a/(a+b)\] \[l/p\] such that

\[\ln(c) = \ln[a/(a+b)] + \ln(l/p).\]

Normalizing the price to 1, and analyzing the data in levels produces \(c = B_0 + B_1 I + \text{error}\), where \(B_0\) is the y-intercept or "constant": The constant tells us how many restaurant meals that we would still consume if we have zero income (\(I=0\)). \(B_1\) is the slope of the fitted line: The slope tells us the change in the number of restaurant meals consumed we could expect with a one unit change in the value of annual income.

**OLS Slopes (Bs)**

The only difference between the simple and multivariate regression models is the calculation and the interpretation of the slope. The slope (\(B_i\)) from the multivariate regression model is the change in the dependent variable associated with a one-unit change in the independent variable, holding constant the other independent variables in the equation:

\[\ln(c) = B_0 + B_1 \ln(I) - B_2 \ln(p) + \text{error}\]

When using logs of the dependent variable, a slope becomes the elasticity and units become percentages.

**Simple Regression Model versus the Multivariate Regression Model**

Once again, the simple regression model implies a dependent variable (c) is only explained by one independent variable, which is not realistic. For example, quantity (c) consumed is not just explained by price (p). The multivariate regression model implies a dependent variable (c) is explained by more than one independent variable, which is more realistic. For example, the combination of price (p) and income (I) explain quantity consumed (c).

**Survey Data**

A hypothetical survey is two questions to six families: How many meals does your family consume at restaurants per year? What is your annual family income? The hypothetical results of the survey are presented in Table 4.

**Table 4: A Hypothetical Survey of 6 Families, Annual Income and Restaurant Meals/Year**

| Family No. | No. of Restaurant Meals Per Year | Annual Income ($1000) |
|------------|----------------------------------|-----------------------|
| 1          | 50                               | 12                    |
| 2          | 70                               | 13                    |
| 3          | 70                               | 14                    |
| 4          | 50                               | 9                     |
| 5          | 80                               | 16                    |
| 6          | 40                               | 8                     |

Source: Data Analysis from James Curtis Jr (2001); also data from R Gitter and A Simon (2001).

**Survey Data and Empirical Results**
Empirical results are the output from the econometric model and statistical software (or calculations using a calculator), where \( c = 2.6 + 4.78 I \) and where estimated \( B_0 = 2.6 \). Thus, we can predict that families will visit restaurants 2.6 times annually even if they have zero annual income. Estimated \( B_1 = 4.78 \). Thus, we can predict that the number of annual restaurant visits increase by 4.78 with one unit (one thousand dollar) increase in annual income.

### Testing Hypotheses

Hypothesis Testing are statistical tests, such as t-tests, on the accuracy of slopes calculated in an econometric model before accepting the results. In the way in which the FDA withholds approval of a new medication that has a side effect more frequently than expected, economists withhold "accepting" a calculated coefficient until it passes certain statistical or hypothesis tests (Studenmund, 1999, p.126).
Several studies in applied theoretical research...assumes ability is genetically explained, by empirically measuring family and group panel datasets of other explanatory variables, but sometimes, employing other methods without full social-scientific agreement, including biological/DNA/genetic data in economic and social analyses.

Several studies in applied theoretical research...analyzes human capital, or the impact of innate, unobserved ability and training, or the capacity to be trained, on hours worked, wages, and investment choices. Several studies conduct empirical research that analyzes data, without measures of unobserved ability, on the capacity to 'precisely' predict the contributions (or 'non-contributions') to observed socio-economic outcomes, and to observe the capacity of the model to make group comparisons in predictions. via possible methods like two-stage, first-difference, and/or cohort analyses from applied econometrics, in order to attempt to eliminate the potential bias due to unobserved ability.

Several studies of applied theoretical research...present results from theoretical-simulations. Consider the possibly of data from random draws of numbers on side of the pendulum and data, based on monitoring involuntary subjects for economic phenomena, and analyzing the asymmetric (contexts of) 'information' or 'data' of monitored involuntary subjects, on the other side of the pendulum.

Note that this poses interesting questions, but possibly includes 'false starts' in measuring the impact of progressive budget policies, for individuals, for instance, who have significantly progressed or attempted to progress beyond historical family outcomes, in terms of educational attainment and/or wealth accumulation.

Figure 1. Hours of Work, Leisure & Time
Figure 2. Social Intellectual Advances, Leisure & Higher Education Schooling
Figure 3. Wealth Acquisitions, Leisure & Real Space

Source: graph created by James Curtis, Jr. (2003). References include John C Ham, applications include constraints on the portion of hours of work and leisure.
CHAPTER 4  Applied Theory, Excerpts from Differences in Wealth, Evidence from Structural Regression Decomposition, James E Curtis, Jr................................................................. 9

Components of Wealth, Theory

Wealth is determined by (i) wage rates offered by firms, (ii) individual choices of hours of work and commodity consumption, (iii) market prices of commodities, (iv) initial wealth of individuals and (v) market rates of returns on invested initial wealth and savings.

Market prices of labor, Wages

Consider the following single period model, formalized by Arrow (1972), where owners of firms seek to maximize their utility, which includes short-run profits & types of labor.

Market supply of labor, hours of Work and trade-offs from commodity consumption.

Ham, Jakobsun and Reilly (1998) estimate parameters from labor supply equations derived from the Lucas-Rapping Model where:

“...lifetime utility function is assumed to be additively separable over time. The current within-period utility is a non-additively separable function of food consumption, other non-durable consumption and male labor supply...We rule out corner solutions by assuming that the individual consumes a positive amount of both goods and provides at least one hour of male labor supply in each period. Finally, the consumer is assumed to face no additional constraints in any market, including the labor market. In this situation the consumer faces only a period t lifetime wealth constraint. (pp. 7-8). Using the first order conditions, Ham, Jakobsun and Reilly (1998) show how structural and reduced-form labor supply regression equations can estimated. They also ‘consider a Keynesian or disequilibrium model of the labor market as an alternative to the L-R model. In these models unemployed individuals cannot work as much as they would like to during a given year because they face a constraint on their labor supply” (p. 11).

They show that hours of work can be estimated using wage rates, food prices, non-durable commodity prices and industry or occupation unemployment rates.

Wealth, inheritance and initial wealth

Initial wealth is obtained through inheritance or intergenerational transfers. Becker and Tomes (1979) formulate a model for initial wealth where families choose wealth of the children or investments in children and parental consumption to maximize the family utility function subject to parental income constraint, child (or children) income constraint and endowments.

Wealth and rate of return on savings, including assets

Schlomo Yitzhaki (1987) models the group-specific rates of return using sale and purchase price of assets:

“The...simpler way for calculating the rate of growth of wealth for comparing groups of investors, is to find out, for each group the total value of wealth at the beginning and the end of the period, and then calculate the instantaneous rate of growth of wealth. Formally...we have to aggregate them first and then calculate the rate of growth. Actually, this is the rate of return of the investors for their investments... (Furthermore) if we have several observations on the rate of return on a portfolio—we have to aggregate them first and then calculate the rate of return.” (pp. 80-82).

Thus, the rate of return is function of sale and purchase price of assets.

Discrimination in the price of assets, such as real estate assets, can cause certain groups to obtain a lower sale price or pay a higher purchase price, and thus, obtain a lower rate of return than obtained by members of other groups. There is an extensive literature on how such discrimination can occur in housing market prices. For instance, Martin Bailey (1959) first introduced the border model. His model assumes that:

“Members of group X prefer living near group Y to living entirely surrounded by other members of group X, while members of group Y prefer to live entirely surrounded by other members of group Y.” (Members of group Y) considers it unpleasant to live near people with lower incomes and with tastes and habits ‘inferior’ to their own, while the reverse is sometimes and perhaps not generally true... (Furthermore) Suppose streets A, B, C, and D are occupied entirely by members of group X, while streets E, F, G, etc. are occupied entirely by members of group Y; and suppose that only occupants of streets D and E consider themselves affected by their proximity to members of the opposite group.
the assumed conditions, if people do not anticipate any change, the properties along street D will sell (and rent) at
prices higher than those along streets A, B, and C, and the properties along street E will sell (and rent) at prices lower
that those on streets F, G, etc.” (pp.288-89).

Thus, group specific rates of returns are not only determined by sale and purchase price of assets, but are also determined by
the preferences of those that affect the price of the asset, similar to the discrimination coefficient that affects the size of wages
paid to different groups.

Wealth, Prices of market consumption products, and Price-Adjusted Wealth or Real Wealth

When markets are competitive and firms have all the same cost structure, a large number of firms and buyers in the
market cause prices to be fixed at the additional cost to providing the good or service because information is fully available on
alternative suppliers and customers. Furthermore, free entry and exit price markups, causing market prices to be at equilibrium
and markets to be efficient—where voluntary participation in a market-oriented distribution of goods and services maximizes the
net gains to producers and consumers.

However, when markets are less competitive, such as monopoly, prices are marked up over the additional cost to
providing the good or service, based on consumers’ responsiveness to price and the producer’s share of the market. This leads
to an amount of goods and services, which are bought and sold, that is below the competitive market outcome leading to
inefficiencies and additional gains from government regulation. Moreover, when markets are less competitive, producers can
price discriminate if they know the willingness and ability of individual consumers to purchase their goods and services. While
such practices are generally accepted and encouraged for goods such as senior and student movie theater tickets or lunch and
dinner restaurant prices, price discrimination based on race is equivalent to statistical discrimination—making predictions about a
person based on membership in a certain group (Stockton, 1999, p. 434) and using an individual’s membership in a certain
group as information on the individual’s skill and productivity (Borjas, 2000, p.357). Offering an individual in a racial group a price
that is different from a price offered to an individual in another racial group, such as mortgage rate, (holding all other variables
constant), constitutes economic discrimination. The gains to firms from these practices are the equivalent to the gains to firms
specified from offering different wage rates discussed in section one.

Components of Wealth, Theory of Wealth Differences

Differences Wealth is a function of (i) income, including hours of work and wages, (ii) initial wealth, (inheritance), or
intergenerational transfers; (iii) rate of return on saving wealth, including financial assets and homeownership; and (iv) size of
household. The following describes literature of statistical results concerning wealth.

Income, including hours of work and wages

Additional studies concentrated on this role of income and savings in black-white wealth differences. Using 1983-84
SIPP data, Oliver and Shapiro (1989) find that income differences do not explain wealth differences. They show that wealth and
financial assets differed among blacks and whites when controlling for income groups. Blacks had less than 50 percent of the
wealth held by whites across all income categories while less than 25 percent of the financial assets held by whites. Conley
(1999) confirmed his results. He found that blacks had less wealth at all levels of income even though blacks saved more than
whites19 and blacks were self-employed more than whites (12 percent vs. 10 percent).Using the results , Henry Terrell (1971)
also found large differences in black and white wealth when for
education and income. Franklin and Smith (1977) used 1967 DC Estate Records to show that black and white net worth also
differed when controlling for average income.

Wolff (1992) uses SCF, SFCC, and SIPP from 1940 – 1988 to show that the black-white difference in net worth
exceeded differences in income. The black-white income ratio held or rose to 60 percent from 1940 to 1985 while the black-white
ratio of net worth was below 25 percent from 1962 to 1988.

Wealth Differences, in the form of Inheritance and initial wealth

Several studies have focused on the role of initial wealth or intergenerational transfers on black-white wealth
differences. Menchik and Jiankopolos (1997) found effects of intergenerational transfers on black-white wealth differences. They
used used 1976 National Longitudinal Surveys and 1989 Survey of Consumer Finances to conduct regression decomposition.
Foremost, they calculated permanent income using predicted current income at age 60. Explained wealth differences ranged
between 30-37 percent of the 1976 pooled sample; 58 percent of 1989 married sample; and 72 percent of the 1989 single

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Electronic copy available at: https://ssrn.com/abstract=3091354
sample. But they found 25 percent of white households and 10 percent of black households received inheritance but only 10-20 percent of the explained differences were due to inheritance. Using tobit analysis, they found white households with fewer children, with more schooling among fathers and with deceased parents had higher probability of receiving inheritance. Wolff (1998) confirmed these results. He used 1983–1995 SCF data to show that blacks and whites possessed different proportions of their wealth originating from inheritance (blacks: 11 percent vs. 24 percent for whites).

Altonji, Doraszelski and Segal (2000) observed limited effects of intergenerational transfers on black-white wealth differences. They used 1984-1994 PSID data to conduct OLS and fixed effect regression decomposition. To obtain the fixed effect, the calculated permanent income from an individual-specific effect of income regression normalizing age to 40. To conduct fixed effect decomposition, the authors used sibling differences to net out a fixed inheritance effect and found little change in results. Explained wealth differences ranged between 30-111 percent for pooled sample depending on the coefficient used in the analysis. After conducting a fixed effect analysis of sibling differences and comparing to OLS results with no fixed effect, the authors found no significant differences: controlling for inheritances does not change the portion of unexplained differences significantly. They proposed that differences in savings or rates of return might be more effective in explaining black-white differences in wealth than intergenerational transfers.

Wealth Differences, in the form savings assets

Additional studies have focused on the role of financial assets in wealth differences. Brimmer (1988) used 1984 Census data to show that blacks held 5 percent or less of any individual asset. Stocks consisted of 2 percent of black net worth and 0.13 percent of US stocks. Additionally, he found that whites at lower incomes were more likely to hold stocks than blacks. Snyder (1989) confirmed these asset differences. He used 1982 NBS data to show that black asset portion of the retirement portfolio (3.6 percent) was smaller than the portion in the Hispanic portfolio (9-10 percent) and whites (20 percent). Terrell (1971) also confirmed significant asset differences among blacks and whites. Descriptive statistics from 1967 Survey of Economic Opportunity data show that blacks held 24.1 percent of white non-financial assets and 6 percent of white financial assets. But 72 percent of the black non-financial assets were in consumption services while only 53 percent of white assets were stored in this manner. Wolff (1998) also found larger differences in financial assets decades later using 1983-95 SCF data. The black-white ratio of mean financial worth fell to 11 percent while black-white ratio median financial net worth held constant at 0 percent.

Some research has estimated the source of asset differences among blacks and whites. Using probit regression analysis, Hurst, Luoh and Stafford (1998) found blacks are less likely to own stocks and transaction accounts when controlling for income and demographic variables. They suggested that lack of experience with transaction account ownership may impact potential ownership of other assets. Chiteji and Stafford (1999) confirmed this proposition. They used 1984 and 1994 PSID data to analyze the role of financial asset accumulation on black-white wealth differences. Probit analysis shows that parental ownership of stock increases the probability of stock ownership among young families causing race to become statistically insignificant. Keister (2000) also confirmed these findings. She used SCF data from 1983 and 1986 to analyze black-white wealth differences. Using logit regression analysis, she shows that blacks were less likely to own high-risk assets (such as business assets, stocks, and bonds) after controlling for income, education, age, marital status and ownership. She also found that past ownership of assets predicts current ownership of assets.

Furthermore, income predicts ownership of assets but education variables were not consistent across past and current owners. Finally, she used a simulation method to show aggregate improvements occur in the distribution of wealth when removing race effects and augmenting black education effects.

Wealth Differences, in the form of assets of homeownership

Wolff (1992) uses SCF, SFCC, and SIPP from 1940 – 1988 to show that the black-white difference in net worth exceeded differences in homeownership. The black-white homeownership ratio held or rose to 60 percent from 1940 to 1985 while the black-white ratio of net worth was below 25 percent from 1962 to 1988. Even though wealth differences ranged further than homeownership differences, their correlation remained unchanged. Birnbaum and Weston (1974) used 1967 SEO data to show the correlation of wealth and homeownership. They used GLS regression analysis to calculate the predicted probability of owning home using a sample split by race. They found differences in wealth increased the explained differences in the probability of homeownership. They also found that the black wealth portfolio primarily consisted of homes unlike white wealth: 72 percent of black wealth.
while only 35 percent of white wealth was in homes. However, 59 percent of whites own homes while only 39 percent of blacks
owned homes.

Wealth Differences and the size of the household

Keister (2000) shows a significant impact of resource dilution of (household structure) on wealth. She used 1985 and
1996 NLSY data to analyze the role of household structure on black-white wealth differences. She provides a review of the
literature on the theory of resource dilution—the impact of family organization on material resources, parental attention,
intervention and child opportunities—and shows that it accounts for an inverse relationship between the number of children and
education outcomes. Using GLS regression analysis and logit analysis, she found that resource dilution impacted the
accumulation of black and white assets differently, the probability of blacks and whites owning assets differently, and upward
mobility among blacks and whites differently.

Empirical/Statistical Differences in Wealth

The following review of the literature is based on empirical difference in wealth, (i) based on observed differences in
distribution of wealth, (ii) locality differences in wealth, and (iii) regional differences in legal protections of individuals based on
skin color.

Overall distributional comparisons also show significant differences in black and white wealth. Terrell (1971) used Gini
coefficients and distributional analysis to show black wealth was less evenly distributed than whites. Hurst, Luoh and Stafford
(1998) analyzed PSID data to analyze black-white wealth differences and found that the wealth of blacks was more mobile than
the wealth whites due to a more narrow wealth range among blacks. They also found that 70 percent of blacks in the sample still
had no wealth after 10 years passed. Using distributional analysis such the Lorenz Curve, they found black wealth grew faster
during the 10-year period but these changes were not observable in the overall distribution of wealth due to large difference in
distributional patterns among blacks and whites.

Franklin Smith (1975) analyzed a sub-sample of DC residents in the mid 1960’s to observe similar black-white
wealth differences. He used 1967 DC Estate Records and descriptive statistics to show that blacks possessed 1/19 of white estate in
DC. Using a log regression analysis of black wealth, he also found blacks in DC still owned $3300 less wealth (in 1967) when
controlling for age, gender, occupation, marital status and birthplace.

Conely (1999) used results from analyzing 1984-94 PSID data to propose that legal and class barriers were the source
of black-white wealth differences. He suggested that there were legal barriers to economic growth in the black community,
including black codes in the south (e.g. SC), coerced failure of Freedman’s Bank in 1874, racial discrepancies in Old Age
Insurance in 1935, redlining in HOLC in 1933, and redlining in Federal Housing Authority & Veterans Administration in 1937.
Using regression analysis of log wealth, Conely found parental wealth had a more significant impact on net worth than race and
suggested that social class is more important than racial differences.
Abstract The objective of the university course is to convey intermediate concepts of microeconomic theory to students using explanatory, graphical and mathematical methods of analysis. Microeconomics is the study of the efficient choices made by individuals, including consumers, workers, owners of firms and social planners ... The only prerequisite for this course is successful completion of Principles of Microeconomics ..., or equivalent. After completing the rigorous work requirements in this course, students should have a sufficient set of skills to thoroughly analyze interesting economic questions and to effectively participate in (i) advanced undergraduate economics courses, (ii) core graduate economic theory courses, and (iii) graduate courses in the school of business, including MBA programs.

Course Materials Students should obtain a copy of the required textbook and refer to the recommended textbooks for additional student resources. Required Textbooks (1) Varian, Hal R. Intermediate Microeconomics: A Modern Approach, Norton: New York, 1999. Recommended Textbooks (2) Frank, Robert H. Microeconomics and Behavior, Boston: McGraw-Hill, 2000; (3) Mankiw, N. Gregory, Principles of Microeconomics, Fort Worth: Dryden, 1998; (4) Pindyck, Robert S. and Daniel Rubinfeld, Microeconomics, Macmillan: Simon & Schuster: New Jersey, 1995; (5) Stockman, Alan C. Introduction to Microeconomics, Fort Worth: Dryden, 1999; and (6) Varian, Hal R. Microeconomic Analysis, Norton: New York, 1992.

Several portions of this textbook were originally written and presented by James Edward Curtis Jr. August 21, 2001 and May 13, 2014; Copyright 2001. Contact information James Edward Curtis, Jr., PO Box 3126, Washington, District of Columbia 20010, jamesjr@jecjef.net, or call (202) 739-1962.
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| 6   | Budget Constraints |
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Markets

- Circular Flow of Goods and Services
  - Product Markets
    - Consumers demand products
    - Elasticity
    - Producers supply products
    - Elasticity
  - Labor Markets
    - Workers supply labor
    - Firms demand labor

- Equilibrium
- Efficiency
Theory of Consumer Choice

- The theory of consumer choice explains how you choose goods & services to consume by analyzing your budget and preferences.

- Lecture Topics:
  - Budget Constraint
  - Preferences & Axioms
  - Optimal Choice & Demand
    - Income & Substitution Effects
    - Income & Engel Curves
  - Applications:
    - Labor Supply
    - Intertemporal Consumption
Theory of the Firm

- The theory of the firm describes how owners of firms choose inputs to produce goods and services given market prices of inputs. Topics:
  - Production function
    - Returns to Scale
  - Optimal Choice of Inputs
    - Profit Maximization
    - Cost Minimization
      - Returns to Scale
  - Optimal Choice of Output and Prices
    - Types of Markets
Study Questions 1 of 2, Economic Fundamentals, created by James E Curtis, Jr.

A. Define the following terms and provide an example:
   i. Economics
   ii. Scarcity
   iii. Microeconomics
   iv. Macroeconomics
   v. Law of Demand
   vi. Law of Supply
   vii. Efficiency
   viii. Factors of Production
   ix. Equilibrium
   x. Elasticity

B. Using graphs of supply and demand curves, show the effect of the following events. For full credit, label the following: axis (price, quantity); supply and demand curves; old equilibrium quantity (Q1); old equilibrium price (P1); new equilibrium price (P2); and new equilibrium quantity (Q2):

Consider the market for Microsoft Office 2000 software. What will happen in this market when:
   i. Microsoft releases Microsoft XP, a more expensive system software needed for Office 2000 to operate but helps Office 2000 operate more efficiently.
   ii. The price of Corel’s Office 2000 software increases.
   iii. Microsoft renews its contract with the makers of machines that manufacture Office 2000, but the price of the machines double.
   iv. The price of Dell computers (hardware) declines.
   v. Microsoft buys new machines that manufacture Office 2000 at the same price but produces twice as much software per hour.
   vi. More senior citizens and teenagers are trained to use Office 2000.

Consider the market for tangerines. What will happen when:
   vii. The price of pest repellant decreases.
   viii. The price of oranges increases.
   ix. A bad storm wipes half of the harvest.
   x. People go on diets and increase the number of fruits and vegetables in their diets.

C. Suppose that the market for a bag of tangerines is described by the following equations:
   \[ P_2 = (1/3)Q_2 \]
   \[ P_2 = 12 - Q_2 \]

   i. Calculate the equilibrium price and quantity of bags of tangerines.
   ii. Derive the demand and supply schedules for bags of tangerines.

| Price | Quantity Demanded | Price | Quantity Supplied |
|-------|-------------------|-------|-------------------|
| 0     | 5                 | 1     | 3                 |
| 2     | 4                 | 3     | 3                 |
| 4     | 2                 | 5     | 1                 |
| 6     | 0                 | 7     |                   |
| 8     |                   | 9     |                   |
| 10    |                   |       |                   |
Study Questions 2 of 2, Economic Fundamentals, created by James E Curtis, Jr.

ii. Graph the equilibrium quantity and price. Show the consumer and producer surplus.

iv. Calculate the consumer surplus and producer surplus.

v. Suppose farmers successfully lobby Congress to impose a price floor of $2 per bag of tangerines. What happens to the number of bags of tangerines demanded and supplied?

vi. Suppose consumer advocates successfully lobby Congress to impose a price ceiling of $4 per bag of tangerines. What happens to the number of bags of tangerines demanded and supplied?

vii. Calculate the price elasticity of demand when equilibrium price increase by a dollar. How responsive are consumers to changes in price?

viii. Calculate the price elasticity of supply when equilibrium price increase by a dollar. How responsive are producers to changes in price?

D. Suppose the United States and Russia trade computer software and tangerines. Let the following represent the US and Russian demand and supply schedules for pounds of tangerines.

| United States | Russia |
|---------------|--------|
| Price | Quantity Demanded | Price | Quantity Supplied | Price | Quantity Demanded | Price | Quantity Supplied |
| 0  | 12  | 0  | 0  |
| 1  | 10  | 1  | 1  |
| 2  | 8   | 2  | 2  |
| 3  | 6   | 3  | 3  |
| 4  | 4   | 4  | 4  |
| 5  | 2   | 5  | 5  |
| 6  | 0   | 6  | 6  |

i. Derive the World demand and supply schedules for bags of tangerines.

| Price | Quantity Demanded | Price | Quantity Supplied |
|-------|-------------------|-------|-------------------|
| 0  | 6  | 6  |
| 1  | 5  |
| 2  | 4  |
| 3  | 3  |
| 4  | 2  |
| 5  | 1  |
| 6  | 0  |

ii. Graph the US, Russian and World equilibrium prices and quantities (on separate graphs).

ii. Graph the domestic countries with the world price. Label the areas of the graph including the amount of imported (due to a shortage) or exported (due to a surplus); consumer surplus; and producer surplus. (Do not calculate anything in this problem).
Study Questions 1 of 1, Theory of Consumer Choice, created by James E Curtis, Jr.

A. Define the following terms:

i. Consumer Choice Theory

ii. Preference

iii. Preference Ordering

iv. Ordinal Ranking vs. Cardinal Ranking

v. Utility

vi. Marginal Utility

vii. Marginal Rate of Substitution

viii. Indifference Curve & Indifference Map

ix. Additive Utility & Multiplicative Utility

x. Feasibility

xi. Completeness of Preference Orderings

xii. Monotonicity

xiii. Transitivity

xiv. Convexity

xv. Optimal Choice

xvi. Income Consumption Curve & Engel Curve

xvii. Price Consumption Curve & Demand Curve

xviii. Substitution Effect & Income Effect

B. For each of the following utility functions in i-v, answer questions a-f:

a) Identify the utility function and provide an example of the consumption goods;

b) Explain which preference axioms hold and which preference axioms do not hold;

c) Derive the utility schedule and graph an indifference curve map to scale for only the FIRST value of the utility function;

d) Graph the optimal consumption bundle when \( p_x = \$20,\ p_y = \$10,\) and \( M = \$60.\) Label the values of \( x^*, y^*\) and \( U(x^*, y^*);\)

e) Graph the income consumption curve and Engel curve for \( x\) and \( M = \$20, \ 40, \ 60, \ 80, \ 100;\)

(You do NOT have to draw the indifference map to scale)

f) Graph the price consumption curve and demand curve for \( x,\) where \( M = 60\) and \( p_x = \$30,\)

20, 15, 10, 5. (You do NOT have to draw the indifference map to scale).

Suggested values of \( U(x, y)\) for indifference curve map:

i. \( U(x, y) = x^2 - y^2\)

\(U = 1, 2, 3, 4, 5\)

Note: \( x = U^1//y^2\)

ii. \( U(x, y) = x + y\)

\(U = 4, 5, 6, 7, 8\)

iii. \( U(x, y) = \min(x, y)\)

\(U = 1, 2, 3, 4, 5\)

iv. \( U(x, y) = x^2 - y^2\)

\(U = 4, 5, 6, 7, 8\)

v. \( U(x, y) = x^2 + y^2\)

\(U = 4, 9, 16, 25, 36\)

C. Answer the following questions on substitution and total effects:

i. Consider an individual with utility as described by B.i and a budget constraint as described in B.ii. If the price of \( x\) increases to \$36, calculate the proportion of the total effect that is due to a substitution and an income effect. Also, graphically show the components of the total effect.

ii. Consider an individual as described in B.ii and a budget constraint as described in B.ii. If the price of \( x\) decreases to \$5, graphically show the components of the total effect.

iii. Consider an individual as described in B.iii and a budget constraint as described in B.ii. If the price of \( x\) increases to \$5, graphically show the components of the total effect.

D. Assume that consumers consume meals (x) and clothes (y). Consider an individual with utility as described by B.i and the price of meals equals four dollars, the price of clothes equals fifty dollars, and his or her income equals one thousand dollars.

i. Could the individual have a utility function as described in B.ii or B.v? Why or why not?

ii. If the government wants to raise a certain amount of revenue (per average consumer), is it better to access a one-dollar quantity tax on meals or an income tax (equivalent to the revenue from the quantity tax)? Prove your answer mathematically and provide a “well-labeled” graph.

E. Mathematically prove and graphically show that the slope the budget constraint equals the price ratio.
A. Define the following terms:

i. Theory of the Firm
ii. Production Function / Isoquant
iii. Marginal Product of Labor vs. Marginal Product of Capital
iv. Marginal Rate of Technical Substitution
v. Constant Returns to Scale vs. Increasing Returns to Scale vs. Decreasing Returns to Scale
vi. Law of Diminishing Returns (Marginal Product)

B. Production & Returns to Scale

i. (Frank, Chapter 9, #1) Graph the short-run total product curves for each of the following production functions of K is fixed at K=4.
   a. \( Q = F(K,L) = 3K + 2L \)
   b. \( Q = F(K,L) = K^2L \)

ii. (Frank, Chapter 9, #2) Do the two production functions in problem 1 obey the law of diminishing returns?

iii. (Frank, Chapter 9, #10) Identify the regions of increasing (IRS), constant (CRS), and decreasing (DRS) returns to scale on the isoquant map below.

iv. (Varian, Chapter 17, #1) Consider the production function \( f(x_1, x_2) = x_1^{2/4}x_2 \). Does this represent constant, increasing, or decreasing returns to scale?

v. (Varian, Chapter 17, #2) Consider the production function \( f(x_1, x_2) = 4x_1^{1/4}x_2^{1/3} \). Does this represent constant, increasing, or decreasing returns to scale?

vi. (Varian, Chapter 17, #3) The Cobb-Douglas production function is given by \( f(x_1, x_2) = A x_1^a x_2^b \). It turns out that the type of returns to scale of this function will depend on the magnitude of \( a+b \). Which values of \( a+b \) will be associated with different kinds of returns to scale?
Study Questions 2 of 2, Theory of the Firm, presented by James E Curtis, Jr.

C. Cost Minimization

i. (Frank, Chapter 10, #5) A firm uses two inputs, K, L, in its production process and finds that no matter how much output it produces or how input prices vary, it always minimizes its costs by buying only one or the other of the two inputs. Draw the firm's isoquant map.

ii. (Frank, Chapter 10, #6) A firm finds that no matter how much output it produces and no matter how input prices vary, it always minimizes its costs by buying half as many units of capital as of labor. Draw this firm's isoquant map.

iii. (Frank, Chapter 10, #7) A firm purchases capital and labor in competitive markets at prices of r = 6 and w = 4, respectively. With the firm's current input mix, the marginal product of capital is 12 and the marginal product of labor is 16. Is this firm minimizing its costs? If so, explain how you know. If not, explain how the firm ought to do.

iv. (Varian, Chapter 19, #1) Prove that a profit-maximizing firm will always minimize costs.

v. (Varian, Chapter 19, #3) Suppose that a cost-minimizing firm uses two inputs that are perfect substitutes. If the two inputs are priced the same, what do the conditional factor of demands look like for the inputs?

vi. (Varian, Chapter 19, #4) The price of paper used by a cost-minimizing firm increases. The firm responds to this price changing its demand for certain inputs, but it keeps its output constant. What happens to the firm's use of paper?

D. Profit Maximization

i. (Varian, Chapter 18, #1) In the short run, if the price of the fixed factor is increased, what will happen to profits? (Show the graph)

ii. (Varian, Chapter 18, #6) If pMP > w, then should the firm increase or decrease the amount of factor 1 in order to increase profits?

iii. (Varian, Chapter 18, #7) Suppose a firm is maximizing profits in the short run with variable factor x₁ and fixed factor x₂. If the price of x₂ goes down, what happens to the firm's use of x₁? What happens to the firm's level of profits?

E. Describe the efficiency of product markets with perfect and imperfect competition. Use well-labeled graphs to complete your response.
### Student Evaluation of Instruction Report

**Response rate**: 55.6% of 45 enrolled students

*Were student ratings for this report collected on the web?* No

*Date of Report*: 8/7/2010

*Response scale is Likert-type with "5" being high and "1" being low.*

|  | 1 | 2 | 3 | 4 | 5 | N/A |
|---|---|---|---|---|---|-----|
| 1. Well organized | 25 | 0% | 0% | 20% | 40% | 40% | 0% |
| 2. Intellectually stimulating | 25 | 4% | 4% | 12% | 56% | 24% | 0% |
| 3. Instructor interested in teaching | 25 | 0% | 0% | 8% | 48% | 48% | 0% |
| 4. Encouraged independent thinking | 25 | 0% | 0% | 8% | 44% | 44% | 0% |
| 5. Instructor well prepared | 25 | 4% | 4% | 20% | 52% | 28% | 0% |
| 6. Instructor interested in helping students | 25 | 0% | 0% | 8% | 48% | 48% | 0% |
| 7. Learned greatly from instructor | 25 | 8% | 4% | 12% | 52% | 28% | 0% |
| 8. Created learning atmosphere | 25 | 0% | 8% | 24% | 40% | 40% | 0% |
| 9. Communicated subject matter clearly | 25 | 0% | 8% | 8% | 48% | 36% | 0% |
| 10. Overall rating | 25 | 0% | 8% | 8% | 48% | 36% | 0% |

**Your ratings are summarized below. When sufficient data exist, summaries are also provided for up to three reference groups. Your "comparison group" is based on the size of your class and the predominant reason students indicate they enrolled. Comparison group data are reported at both the college and university levels. Over the preceding 4 quarters,**

- 422 instructors and 1009 course sections were in your Comparison Group by College, and 2708 instructors and 6602 course sections were in your Comparison Group by University. Across all courses using the SEI instrument since 1964,

- 42.45% of them share the characteristics listed below. The Course-Offering Unit listing is not based on size or electivity;

- it is a summary of the SEI data across the previous four quarters in your department or school.

**Your comparison groups have the following qualities:**

- Class size 20 to 60;

- Predominant reason given for enrolling in this course was that it was specifically required in the student's major/minor or that it fulfills a GEC/BER requirement.

| **This Instructor** | **Comparison Group by College** | **Comparison Group by University** | **Course-Offering Unit** |
|---------------------|---------------------------------|-----------------------------------|--------------------------|
| **Mean** | **Std Dev** | **Mean** | **Std Dev** | **Mean** | **Std Dev** | **Mean** | **Std Dev** |
| 1. Instructor well organized | 4.2 | 0.8 | 4.2 | 0.5 | 4.2 | 0.5 | 4.2 | 0.5 |
| 2. Intellectually stimulating | 3.9 | 1.0 | 4.0 | 0.5 | 3.9 | 0.5 | 3.8 | 0.6 |
| 3. Instructor interested in teaching | 4.2 | 0.8 | 4.4 | 0.4 | 4.4 | 0.5 | 4.3 | 0.5 |
| 4. Encouraged independent thinking | 4.4 | 0.6 | 4.2 | 0.5 | 4.2 | 0.5 | 4.0 | 0.5 |
| 5. Instructor well prepared | 4.4 | 0.6 | 4.3 | 0.5 | 4.3 | 0.5 | 4.3 | 0.5 |
| 6. Instructor interested in helping students | 3.9 | 1.0 | 4.3 | 0.5 | 4.3 | 0.5 | 4.2 | 0.5 |
| 7. Learned greatly from instructor | 3.8 | 1.1 | 3.9 | 0.6 | 3.9 | 0.6 | 3.8 | 0.7 |
| 8. Created learning atmosphere | 4.0 | 0.8 | 4.1 | 0.5 | 4.1 | 0.5 | 4.0 | 0.6 |
| 9. Communicated subject matter clearly | 3.9 | 0.9 | 4.0 | 0.6 | 4.0 | 0.6 | 3.8 | 0.7 |
| 10. Overall rating | 4.1 | 0.9 | 4.2 | 0.5 | 4.2 | 0.5 | 4.0 | 0.6 |

**Comparison Group by University Distribution of Mean Scores on Overall Rating (Item 10)**

- **20.3%**
- **15.0%**

**Group mean on Overall Rating = 4.2**

**Instructor mean on Overall Rating = 4.1**
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COMPARING OTHER RESEARCH

Comparable Studies

Andrew Brimmer (1988) found that blacks held 7.2 percent of US aggregate income, but only 3 percent of US aggregate wealth in 1984. This large disparity in wealth have persisted throughout the twentieth century: Between 1940 and 1988, the black mean was 13 to 23 percent of mean, and the black median 4 to 10 percent of white median (Wolff 1992). But the origin of these differences has not been researched. Several studies (See, e.g., Pennsylvania Abolitionist Society 1838, Society of Friends 1849, Dubois 1899, Jackson 1939, Soltow 1972, Soltow 1975, Berlin 1979, Higgs 1982, Spriggs 1984, Margo 1984, Hornsby 1989, Eggert 1997, Hershberg 1997, and Bodenhorn 1999) have addressed historical differences in wealth. However, their results are often limited by non-representative local samples, small samples, or descriptive analyses that do not employ potential explanatory variables.

Contemporary Studies

Researchers have also studied different aspects of white-black wealth differences using contemporary data. For instance, several studies have focused on white-black wealth differences due to differences in inheritance (See, e.g., Kotlikoff and Summers 1981, Menchik and Jianakopolis 1997, Wolff 1998, and Altonji, Doraszelski and Segal 2000). Other studies have focused on white-black wealth differences due to differences in income, savings and preferences (See, e.g., Terrell 1971, Franklin and Smith 1977, Oliver and Shapiro 1989, Wolff 1992, Oliver and Shapiro 1997, Conley 1999, Keister 2000a, Keister 2001, and Wolff 2001). Additional studies have focused on white-black wealth differences due to differences in assets and homeownership (See, e.g., Terrell 1971, Birnbaum and Weston 1974, Brimmer 1988, Snyder 1989, Wolff 1992, Wolff 1998, Hurst, Luoh and Stafford 1998, Chiteji and Stafford 1999, and Keister 2000b).

Several studies attempt assess the dominant source of wealth and wealth differences. Kotlikoff and Summers (1981) produced a foundational study on aggregate wealth and found that intergenerational transfers were the most significant factor in wealth accumulation. Conely (1999) proposed that legal and class barriers were the source of black-white wealth difference, i.e. black codes in the south, coerced failure of Freedman's Bank in 1874, racial discrepancies in Old Age Insurance in 1935, redlining in HOLC in 1933, and redlining in Federal Housing Authority & Veterans Administration in 1937. Blau and Graham (1990) produced a seminal study of racial wealth inequality using regression decomposition. After controlling for income and demographic variables, they found that 78 percent of the wealth gap remained unexplained in 1976. These studies have made significant contributions to our understanding of economic discrimination in terms of modern wealth differences.

Historical Studies

Lee Soltow (1972; 1975) conducted one of the first in-depth studies of overall mid-nineteenth century wealth accumulation patterns using the census population schedules. Note that these schedules were originally stored on microfilms. He spun the microfilm half-turns to collect random, cross-sectional samples from 1850-1870. Soltow used Gini coefficients to find that black wealth was less equally distributed among blacks than white wealth among whites. He finds that “their inequality levels are strangely similar in the sense that a few held wealth” (Soltow, 1975, p.145). Note that Soltow employs a small sample of 393 non-whites (1975) and 151 blacks (1972) to calculate his results.

Several studies have analyzed the experience blacks prior to the mass emancipation of southern slaves. John Hope Franklin (1943), Leon Litwick (1961) and Ira Berlin (1974) provide comprehensive accounts of free blacks. Furthermore, Philadelphia Abolitionist Society (1838), Society of Friends (1849), Dubois (1899), Eggert (1997) and Hershberg (1997) provided original studies on free black wealth in localities within Pennsylvania. Also, Bodenhorn (1999) studied racial inequality by analyzing wealth differences among darker and lighter free blacks in Maryland, Virginia, North Carolina, Kentucky and Louisiana. But free blacks were only two percent of the US population at any given time period.

Several studies have analyzed black-white wealth differences among in the south well after emancipation. Robert Higgs (1982), Robert Margo (1984) and Anne Hornsby (1989) used tax records to analyze southern black-white wealth differences between 186 and 1915. They found strong yet limited wealth gains among blacks after emancipation although their results are limited the southern economy.

This study will build upon comparable, current and historical findings by analyzing white-black wealth differences directly after the Civil War and mass emancipation of southern slaves to obtain new insights into the historical and intertemporal dimensions of the white-black wealth gap.

26 of 40, 2003 ©, Education Foundation c/o James E Curtis, Jr., PO Box 3126, Washington, DC 20010, jamesjr@jecjef.net
In general, discrimination is defined as “offering different opportunities to similar individuals who differ by color of skin, ethnicity, gender, age or other characteristic” (Mankiw, 1997, p. 408). Statistical discrimination implies “making predictions about a person based on membership in a certain group” (Stockton, 1999, p. 434) or “using an individual’s membership in a certain group as information on the individual’s skill and productivity” (Borjas, 2000, p.357). These types of discrimination are quite different than economic discrimination.

Gary Becker (1957) suggests that economic discrimination can be described as a ‘taste for discrimination,’ meaning the individual “must act as if he were willing to pay something, either directly or in the form of reduced income, to be associated with some persons instead of others…The money costs of a transaction do not always completely measure net costs and a discrimination coefficient acts as a bridge between money and net costs” (Becker, 1957, p.14).

Therefore, economic discrimination is either based on individual productivity differences or individual preferences for a member of a particular group. The remedy to the latter is promoting competition for market discipline to prevent sustaining such practices.

Institutional Perspectives

The definition economic discrimination is contingent upon one’s perspective of the organization of society: via the individual or the institution. Howard Sherman (1996) suggests that the latter viewpoint is based upon dividing social progress into: “Institutional and technical processes. The institutions include all human relationships in the processes of production and distribution. These institutions thus include under capitalism the work relationship of workers and bosses, the corporate structure, the trade unions, the whole financial process, and so forth. These relationships or (non-preordained) processes can only be described for a single type of economy because evolution has witnessed various types of economies and will most likely witness many more in the future. Thus, the (institutionalist) must always be historically specific and must base its laws on the specific institutions of a specific society” (Sherman, 1996, p.40).

Therefore economic discrimination occurs when these human relationships lead to divisions where one group with at least one dominant factor, such as a population or resource majority, pursue an economically elevated position in a common society over the other group via the technical processes of the institutions.

PRICE OF LABOR, WAGES, AS A SUBSET OF WEALTH

The Purpose of Wealth

The purpose of wealth has varied from over time. From an economics perspective, wealth is the accumulation of resources that have market value and can be liquidated for present and future consumption. This study proceeds based on the most measurable assumption: households reside in a country with a mixed economy of markets and social planning, such that they have an incentive to accumulate material wealth for intertemporal household consumption and social influence. The following sections present: (i) the determinants of wealth, (ii) a decomposition of wealth determinants into structural components and discrimination, and (iii) theoretical differences in average wealth between members of two groups.

Becker (1957) and Arrow (1972) developed the most general theories of wage discrimination and favoritism. Oaxaca (1973) and Blinder (1973) have mechanized their theories for empirical analysis. While their findings are insightful, they cannot be directly applied to studying wealth differences since wealth is a complex combination of wages and other variables.
SUMMARY

In summary, the lower boundary of the 99 percent confidence interval on the mean for unexplained effects remained above 72 percent for decompositions in all samples, based on the primary index and, at least, above 50 percent for decompositions in all samples, based on the alternative index. Furthermore, unexplained differences in states that abolished slavery just after the Civil War were 10 percent higher than unexplained effects in states that abolished slavery years before the Civil War. Finally, the magnitudes of the unexplained effects were similar over the long-run.

Therefore, we cannot reject the claim that, when comparing the wealth of disenfranchised to the wealth of the enfranchised, differences in wealth, due to unexplained effects, including discrimination, dominate the portion due to classical characteristic differences.
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I am here by the grace of God and the ultimate sacrifice of Jesus Christ, who gave his life so that we might have life beyond the natural. Today, his sacrifice, once again, has provided tangible evidence of life beyond the natural.

Acknowledgements

I also appreciate the efforts of the following persons who made my long walk a little easier: Dr. William Penn, Mr. Benjamin Sands, Ms. Elizabeth Lombard, Ms. Vicki Brandon, Mr. Gerald Massenberg, Dr. Deborah Bowles, Mr. and Mrs. Mike Trowbridge, Ms. Rose Wilson-Hill, Ms. Belinda Higgs, Ms. Jimmi Nicholson, Ms. Barbara Rich, Dr. Timothy Knowles, Dr. Vincent McDonald, Mr. Marc Bostic, Dr. Mac Stewart, Dr. Illee Rhimes, Dr. TK Daniel, Dr. Nick Nelson, Mr. Charles Hall, Mr. Christopher Cooper, Esq., Mr. Raymond Tillery, Mr. George Powell Sr., Mr. Allen Coleman, Mr. David Williams, Esq., Dr. Steve Favors, Dr. Joyce Latimer, Mr. H. Patrick Swygert, Esq., Dr. Brit Kirwin, Dr. Ed Ray, Dr. Ruth Peterson, Dr. Towsand Price-Spratlen, Dr. Gregory Washington, Dr. Cecelia Conrad, Dr. Phillip Jefferson, Dr. William Darity, Dr. Charles Betsey, Dr. Alvin Thornton, Mrs. Paula Puhak, Mrs. Judy Petticord, Dr. Hajime Miyazaki, Dr. Nori Hashimoto, Dr. Bruce Weinberg, Dr. Steve Cecchetti, Dr. Dan Levin, and Dr. John Ham.

And I appreciate the efforts of the workers for the city of Denver, Colorado; Columbus, Ohio; Camden, New Jersey; District of Columbia; and cities in Prince George’s County, Maryland including Bladensburg; the students, faculty and staff at the Ohio State University, University of Maryland, Rutgers University, University of Texas, Howard University and University of District of Columbia; and especially Marriott Town Place Suites, Southern Management, Metropolitan DC Police, Police Prince George’s County Police (and the departments of the all the cities in PG County), Maryland State Troopers, Fire and Rescue Workers in DC and all the cities of PG County, and the residents of the Jones Tower Graduate Dormitory and staff of the North Area Building Services at the Ohio State University, and members and officers of the Omega Psi Phi Fraternity Inc. and Delta Sigma Theta Sorority Inc.

Background - family

I grew up a simple man. I was born in Washington, DC at Columbia Hospital on Valentine’s Day; the 14th of February in 1973. I am the son of two working parents from the south, and have one brother. I attended the following public elementary and secondary schools in Prince William County, Virginia: Dale City Elementary, Neabsco Elementary, Bel Air Elementary, Godwin Middle School, and Gar-Field High School. In 1991, I graduated from Calvin Coolidge High School in Washington, DC. Maryland Public Schools.

My mother, Karen Curtis, was born in Washington, DC. She has one sister and two brothers. She also graduated from Calvin Coolidge High School and took some classes at Trinity College in Washington, DC. My father, James Curtis Sr., was born in Chocotaw County, Alabama, with brothers and sisters. He has played college football and took classes at Federal City College, now known as the University of the District of Columbia. My brother, Keith Curtis, was born in Fairfax County, Virginia. He has one brother and has recently taken classes at Keystone College in Pennsylvania.

Background – leisure, sports entertainment

I also enjoy watching college athletic competitions, such as Ohio State University vs. University of Michigan in football, Georgetown University vs. Syracuse University in basketball, University of North Carolina vs. Duke University in basketball, Howard University vs. Hampton University in football, Grambling State University vs. Southern University in Football, the MEAC, CIAA and SWAC basketball tournaments, UCLA vs. University of California in basketball, University of Notre Dame vs. Purdue University in football, Nebraska University vs. Florida State University in football, University of Miami vs. University of Florida in Football, University of Virginia vs. University of Maryland in basketball, University of Connecticut vs. University of Tennessee in women's basketball, University of Kentucky vs. University of Louisville in basketball, and the halftime shows provided by the marching bands of North A&T State University, Florida A&M University Marching 100 and the Ohio State University marching band with the famous script Ohio performance.

Background – leisure, travel

For vacation, I often took annual trips to visit my grandparents. During my senior year in high school, I took my first non-family vacation trip with fellow high school seniors to Florida where I went to Disneyland and used up five rolls of film on my Kodak Camera to document the occasion. Other previous travel included trips to Atlantic City, NJ; Myrtle Beach, South Carolina; Virginia Beach, VA; Gulf Shores, Alabama, and Indianapolis, IN. The Marriott, Hilton, Raddison, Hyatt, Sheraton, Adams Mark,
Even though I have very humble beginnings, my personal response was to invest heavily in education. As a result, I practically earned an “A” average (but no lower than “B” average) every year of schooling. These efforts led to a Bachelor of Arts degree from the Howard University department of economics and another Bachelor of Arts degree from the Howard University department of political science in 1996. In 1998, I earned a Masters of Arts degree from the Ohio State University department of economics. And, currently, I am a graduate student pursuing a Doctor of Philosophy degree in the Ohio State University department of economics.

Other doctoral students currently in the department include Nisha Aroskar, Youngsoo Bae, Rob Baumann, Samrat Bhattacharya, Laricee Brown, Rui Che, Xueyu Cheng, Zhongzhang Chi, Horag Choi, Kirill Chernomaz, Molly Cooper, Horag Choi, Steve Culpepper, Shubhasis Dey, Robert Dietz, Andrea Douglass, Tufan Eksici, Xiaochen Fan, Peihong Feng, Bill Frechette, Alka Gandhi, Johanna Goertz, David Hineline, Kyngho Jang, Tingting Ji, Hyungmin Jung, Ryo Kato, Sougata KERR, Hyeongwoo Kim, Junhan (JH) Kim, Pilhyun (Ph) Kim, Kim Seong-Tae, Youngse Kim, Scott Kinross, Bill Kosteas, Stefan Krause, Sarah Krause, Junhee Lee, Tang-Chih Lee, Ji Li, Li Li, Lianfa Li, Xianghong Li, Jun Liao, Hyung-Seok Lim, Xu Lin, Xiaodong Liu, Hua Luo, Garima Malik, Virgilii Midigam, Tohir Mirzoev, Young-Kyu Moh, Abdul Munasib, Shoumi Mustafa, Alta Nandi, Shinichi Nishiyama, Roisin Osullivan, Mark Owens, Serkan Ozbeklik, Edward Percy, Mauricio Ramirez-Grajeda, Erick Rangel-Gonzalez, Ranajoy Ray-Chaudhuri, Paul Rivera, Susan Rose, Subhra Baran Saha, Qingyan Shang, Sukha Shin, Ranjan Shrestha, Raphael Solomon, Hankyong Sung, Takayuki Tsuruga, Ji Tao, Hao Wang, Xiaohong Wang, Xiaodai Xin, Ying Xu, Daching Yang, Da-Hyun Yoo, Haifeng You, Jiewei Yu, Jihiayu Yu, and Mingjun Zhao.

Additionally, I received training from the Harvard University School of Business Administration Summer Venture in Management, American Economics Association Summer Pre-Doctoral Program at the University of Texas at Austin, preparatory calculus courses at the University of Maryland at College Park, and two years of undergraduate education at Rutgers University in Camden.

Some of the faculty and staff that I encountered during my tenure in different academic programs included Dr. Mary Kay Perkins, Dr. Charles Chandler, Dr. Emily Blank, Dr. Rodney Green, Dr. Byung Lee, Dr. Sung Kwack, Dr. Gamminie Meepagala, Dr. Ransford Palmer, Dr. Cyril Hunte, Dr. Kofi Dompere, Dr. Kathleen Dorsainvil, Dr. Gregory Hung, Dr. Satish Wadhawan, Dr. Ronald Walters, Dr. Jane Flax, Dr. Charles Harris, Dr. Morris Levitt, Dr. Joseph McCormick, Dr. Lee Collins, Dr. Lorenzo Morris, Dr. Michael Nwanze, Dr. Michael Frazier, Dr. Babalola Cole, Dr. John Cotman, Dr. Don Davis, Dr. Mervat Hatem, Dr. Nicole Johnson, Dr. Mae King, Dr. Marilyn Lashley, Dr. Richard Steltzer, Dr. Brian Weinstein, Dr. Maurice Woodard, Dr. Louis Wright, Ms. Rosemary Bethia, Ms. Javenia Lilly, Ms. Barbara Walls, Ms. Adri Washington, Mr. Dennis Archer, Ms. Belinda Lightfoot Watkins, Dr. Teresa Redd, Dr. Ian Smart, Dr. Newton Jackson, Dr. Cotton, Dr. G.S. Maddala, Dr. Masao Ogaki, Dr. Jim Peck, Dr. Peter Howitt, Dr. Bennett Baack, Dr. Gene Mummy, Dr. Hu McCulloch, Dr. Nelson Mark, Dr. Lung-Fei Lee, Dr. Paul Evans, Dr. Stephen Cossett, Dr. Donald Haurin, Dr. Audrey Light, Dr. Pok-sang Lam, Dr. John Kagel, Dr. Patricia Reagan, Dr. Lucia Dunn, Dr. Carol Moehling, Dr. Richard Stockel, Dr. Randy Olsen, Dr. Geore Alessandra, Dr. Andrew Ching, Dr. Warren Eason, Dr. Eric Fisher, Dr. Bolton Fletcher, Dr. Joseph Kaboski, Dr. G.S. Maddala, Dr. Howard Marvel, Dr. Stephen McCafferty, Dr. Massimo Morelli, Dr. John Rizzo, Dr. David Schmidte, Dr. Lixin Ye, Dr. Karl Asmus, Dr. Leroy Gill, Dr. Kathryn Marshall, Dr. Lawrence McCulloch, Dr. Ida Mirzaie, Dr. Alan Osman, Dr. Deborah Parsons, Dr. Paul Post, Ms. Susie Bruner, Ms. Michelle Chapman, Ms. Jo Ducey, Mr. Yong Yu, Ms. Sherry Little, Ms. Ana Shook, Mr. John-David Slaughter, Ms. Michelle Wilenburg, Dr. Hassan Aly, Ms. Toni Greenslade-Smith, Dr. Rene Stulz, Dr. G. Andrew Karolyi, Dr. Stephen Buser, Dr. Ralph Walkling, Dr. Edward Jennings, Dr. David Hirshleifer, Dr. Anil Mukheria, Dr. Anthony Sanders, Dr. John Silcro, Mr. Roy Blackwell, Mr. Brian Wright, Mr. Merv Brown, Mr. Raymond Stewart, Dr. Don Fullerton, Dr. Vince Geraci, Dr. Dan Slesnick, Dr. Stephen Bronars, Dr. Stephen Trejo, Dr. Sue Stockly, Dr. Rebecca Blank, Dr. Warren Whatley, Dr. Charles Kirwin, Dr. Robert Gitter, Dr. Alice Simon, Mr. Jonh Boos, MBA, Dr. Clifford Cook, MBA, Dr. Norman Gharritty, Mrs. Joanna Harvey, MBA, Mrs. Barbara MacLeod, CFA, Dr. Saif Rahman, Dr. Julidea Yazar, Dr. Margarette Sims, Dr. William Spriggs, Dr. Charles Becker, Dr. Glenn Lowery, Dr. Patrick Mason, Dr. Donna Evans, Dr. Minnie McGee, Dr. Tyrone Howard, Dr. Ira Berlin, Mr. Larry Williamson, Mr. Floyd Hodo, Mr. Kendall Lee, Mr. David Harrison, Ms. Althea Barnett, Dr. Maurice Shipley, Dr. William Jeffries, Ms. Jennifer Gibbs, Ms.

Geraldine Edmonds, Ms. Loanne Dawson, Ms. Susan Gordon, Ms. Gwenodlyn Logan, Ms. Alice Schumer, and Dr. Ogoubkori had several choices to begin my academic career. I was accepted to about 15 universities and received three hundred thousand dollars in college grant and scholarship offers from universities, including Boston University, Manhattan College, Hampton University, Morehouse College, George Washington University, Penn State University, Tennessee State University, Guilford College, West Virginia University, Coppin State University, Texas Southern University, Norfolk State University, Virginia Union University, and North Carolina Wesleyan University. And I was admitted into several graduate
programs, including the Michigan State University department of economics and the University of Delaware department of economics as well as the Princeton University School of Public Policy Summer Program.

The basis for these opportunities was not only graduating high school with 3.8 cumulative grade point average (that was above a 4.0 in my junior and senior year), but remaining active, as Vice-President of the 8th grade and 12th grade classes; Member of the National Junior Honor Society in 8th grade and National Honor Society by 11th grade; Member of the orchestra in the 9th through 12th grades; President of the Band in the 11th and 12th grade; and Member of the Math Club, “It’s Academic” Team and Chess Club.

When I got to college, I continued to remain active, as co-chair of the James Dickinson Carr Scholars Society, President of Phi Sigma Pi National Honor Fraternity, Vice-President of the Black Graduate and Professional Student Caucus, Founder of the INROADS Network Association, Co-Chair of the James Dickinson Carr Scholar’s Society, Director of community affairs for student government, a local committee chair for National INROADS Alumni Association National Convention, resident assistant for the dormitory, disk jockey for the student radio station, student representative to the OSU Department of Economics Graduate Studies Committee, chapter committee chair for the Omega Psi Phi Fraternity, representative and social coordinator for the Pan-Hellenic Council, freelance writer for the student newspaper, member of the Campus Activity Board, member of Concerned Black Men Inc., INROADS intern, member of the student organization funding allocation committee, member of the Western Economics Association International, member of the Social Science History Association, presenter at the University of Michigan Students of Color at Rackham National Graduate Student Conference, referee for the International Journal of Manpower, member of the American Economics Association Pipeline Project, and member of a faculty-student envoy to Israel.

Upon completing my undergraduate education, I graduated Magna Cum Laude and a member of Omicron Delta Epsilon International Economics Honors Society, Pi Sigma Alpha Political Science National Honor Society, Golden Key National Honor Society, and the Phi Beta Kappa Honorary Society. Additionally, I earned the Bronze Medal of Citizenship from the Sons of the American Revolution; Who’s Who Among American Colleges and Universities; Leadership Award from INROADS/Greater Washington; Special Act Award from the FDIC; Outstanding Young Man of America; and Outstanding Service Award from the Ohio State University Office of Minority Affairs.

Community Service

Such feats were also obtainable because of many volunteer mentors took time to assist me during the latter years of high school and throughout my undergraduate college career. They include, members of the US Army, who volunteered time and energy to enhance my musical ability on the violin and take me to diverse cultural and performing arts events; the Marion Barry Summer Job program that provided summer employment and college level training of Calculus at the University of the District of Columbia while in high school; advisors of INROADS Inc. tracked my quarterly academic performance as well as my adjustment to college; Members of the Concerned Black Men, Inc. provided me their award for student of the year; and I received scholarships from The Ohio State University, Howard University, Rutgers University, the Phillips-Murray Foundation, The Roothbert Foundation, Delta Sigma Theta Sorority Inc., Omega Psi Phi Fraternity Inc., Kiwanis Club, Combined Military Association (which includes the Air Force, Army, Coast Guard, Marines, Navy, and Rangers), Project Excellence and Grand Lodge of Masons to supplement financial aid in the form of College Work Study grants, Pell grants and Stafford loans.

Their efforts and investment in my life inspired me to volunteer and help others. At Rutgers University at Camden, I served food and provided musical entertainment to senior citizens. At Howard University, I fed the poor, mentored the fatherless, lectured first generation college students for college survival skills, coordinated community health expositions, coordinated high school visitation programs, and coordinated youth summits. At the Ohio State University, I coordinated scholarship banquets for undergraduate students, recognition ceremonies for university maintenance workers, and seminars on graduate school admission exams for undergraduate students. For the Ohio State University Office of Minority Affairs, I also served on the advisory board for the mentoring program, host for the undergraduate student career fair, and host for student visitation programs. As a member of professional and social organizations, I chaired or helped coordinate a community clean-up, charity fundraiser cruise, charity golf tournaments, community talent competitions, scholarship programs, high school mentor programs, community gatherings, and co-curricular programs.

Employment History

To prepare for a professional career, I interned one summer for the Ohio Department of Development Economic Development Division in Columbus, Ohio and one summer in the General Services Administration Office of Ethics and Civil Rights in Washington, DC. I also interned four summers at the Communications Satellite Corporation in Bethesda, Maryland, under the leadership of Bruce Crocket. There, I worked in the corporate finance, treasury and international finance departments.

To earn extra money, I sometimes worked two jobs by filling part-time positions at Fairlanes bowling alley and Advantage temporary agency. Additionally, I held a research assistant position at the Federal Deposit Insurance Corporation (FDIC) Division of Research and Statistics, under leadership of Dr. Roger Watson, Mr. Jack Riedhill, and Ms. Detta Voesar.
Furthermore, I taught economics and statistics courses at the Ohio State University Fisher College of Business, Ohio Wesleyan University Department of Economics, University of Colorado at Denver (Aurora Campus) Department of Economics, and the Ohio State University Department of Economics, using books from Addison-Wesley, W.W. Norton and Company, Macmillan, and McGraw-Hill publishing companies. I also have considered opportunities to teach at the Spellman College and Baldwin-Wallace College, and have considered applying to teach in the economic departments. I held a dissertation research grant from the National Science Foundation. Regional data collection efforts are due, in part, to the research assistance of future scholars like Mr. Samy Affo, Mr. Aser Ashkir, Ms. Jennifer Schneck, and Ms. Angela Longoria.

Religion

Even though I am a simple man, I have a complex God. I stand here, not by will, but by the grace of God. I am Christian. And I respect the faith of others, whether he or she is a Jew, Muslim, believes in Buddhism or Hinduism, or chooses not to believe in a higher source of power. For instance, not only have I visited the tomb of Jesus Christ, but I have visited the Western Wall where Jews pray in Jerusalem and participated in the Million Man March coordinated by Louis Farrakhan, leader of the Nation of Islam.

Some of the ministers and churches that have provided me spiritual direction through their sermons and service, include Rev. John Wheeler and members of the Vermont Avenue Baptist Church in Washington, DC; Rev. Charles Lewis and the members of For His Glory Church in Prince George’s County, Maryland; Rev. Charles Booth and members of the Mount Olivet Baptist Church in Columbus, Ohio; Rev. Karen Dixon and members of the Pennsylvania Avenue Baptist Church in Washington, DC; Rev. Timothy Clark and members of the First Church of God in Columbus, Ohio; Rev. Bernard Richardson and the Andrew Rankin Memorial Chapel in Washington, DC, Rev. Jawanza Colvin and the East Friendship Baptist Church in Washington, DC; Rev. Brian Keith Williams and members of All Nations Church in Columbus, Ohio as well as Rev. George Holmes, Rev. Daniel Mangrum, Rev. Dennis Proctor, Rev. Jamal Harrison Bryant, Rev. William Curtis, Rev. Jay Youngblood, Rev. Willie Wilson, Rev. Grainger Browning, Rev. Claude Alexander, Rev. Anthony Moore, Rev. Mark St. John Carson, Rev. H. Eugene Bellinger, Rev. Eric Dyson, Rev. Donald Bean, Rev. Everett Spencer, Rev. Evelyn Turnbull, Rev. Jay Flu-Allen, Rev. Oscar Crawford, Rev. Charles Montgomery, Rev. Lutricia Hall, Rev. Yvette Hensley, Rev. Monica Lowe, Rev. Gloria Miller, Rev. Nolan Williams, Rev. Melvin Maxwell, Rev. Tonya Burton, and Rev. Romal Tune; I have also grown spiritually by the television, video, tape, and radio sermons of Rev. T.D. Jakes, Rev. Eddie Long, Rev. Clarence McClendon, Rev. Fred Price, Rev. Creflo and Taffy Dollar, Prophetess Juanita Bynum, Rev. Billy Graham, Rev. Jim Baker, Rev. Mark Hanby, Rev. Benny Hinn, Rev. Joyce Meyer, Rev. Rod Parsley, Rev. John Hagee, Rev. David Paul Rev. Kenneth Waylan, Rev. Gilbert Patterson, Rev. Joshua Kevin Michael, Rev. Toni Brazleton, Rev. John Jenkins, Rev. Kim Mix, Rev. Jesse Wood, Rev. David Carter, Rev. Jerome Ross, Rev. Edgar Posse, Rev. Donald Washington, Rev. Marvin Miller, Rev. Michael Reeves, Rev. Daryl Baker, Rev. Nathaniel Jordan, Rev. Victor Davis, Rev. William Latta, Rev. Jasmin Sculark and other preachers from around the nation. I am especially thankful for the training, dedication and personal sacrifices by Rev. Keith Troy and members of the New Salem Missionary Baptist Church in Columbus, Ohio; and the tradition, education and love of Rev. H. Beecher Hicks Jr. and the Historic Metropolitan Missionary Baptist Church in Washington, DC. For, these ministers and ministries instruct me to be a person that is not over-dependent on my presumed intellect but more dependent on my relationship with God.

Philosophy

I have attempted to follow their example by making friends with people that have many different backgrounds. For instance, when I was younger, I became good friends with persons of European decent, such as Roger, Rob, and Richard. I often had dinner with their families and even went to their church revival. I also played on tennis teams and soccer teams with them. Additionally, Roger and I ran for President and Vice-President of our class together in 8th grade, and Rob and I ran for the same offices together in the 9th grade. Also, I enjoyed having Little Caesar’s Pizza on Fridays with Richard’s family. Furthermore, Carlos became one my closest friends and he was of Latino-Amercian. He and I played violin duets at several state and local competitions.

Such experiences have made me politically and economically moderate and philosophically independent. This has resulted in voting for persons who will mostly likely execute my views, which has included Democrats, Republicans and Independents. For, I am an advocate for the improvement of the social condition of Black-Americans, Latino-Americans, Asian-Americans, Native Americans, immigrants, women, handicapped people, homeless people, visually impaired people, hearing impaired people, persons dependent of chemical substances, persons with mental disorders, persons who are wrongfully incarcerated and executed, victims of crime, persons in same gender relationships, senior citizens, young people, unborn people (with no public policy implications), poor people, rural farmers, veterans, organized workers, working families and business owners. I am also an advocate for the preservation of the arts, the environment and the wildlife. This is combined with advocating for responsible, private delivery of goods and services through free market exchanges.
Summary

In closing, I believe that it would inappropriate for me to credit anything that I have attained to my family, friends or personal investments in education, professional training or associations. The sole credit should go to God. In the Old Testament of the Bible, Job (7:17) once asks God, ‘What is man that you should set your heart upon him?’ If you are also seeking the answer to this question, simply know that “God created man in his own image” (Genesis 1:27). Based on this fact alone, you should have the will to persevere and “Let patience have her perfect work.” (James 1:4).

For, I pray that the glory of God manifests itself throughout his kingdom in a manner that achieves his good and perfect will.

James E Curtis, Jr
