GRADUATE ECONOMETRICS III

Course code: Econ 7175
Term: Spring 2014
Location: Tilton Hall 307
Time: TR 12:30–1:45 P.M.
Website: [http://econ.tulane.edu/kfinlay/econ7175](http://econ.tulane.edu/kfinlay/econ7175)
Credit hours: 3 graduate hours

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Office hours: Office hours are by appointment only, but appointments are available almost every weekday. You can make an appointment online: [http://kfinlay.ycb.me](http://kfinlay.ycb.me)

COURSE DESCRIPTION

This course covers various applied microeconometric topics. The main focus is on estimating causal treatment effects and dealing with selection issues. Other topics such as measurement error, spatial econometrics, and simulation methods will be discussed as time permits.

PREREQUISITES

Students should be familiar with linear algebra, mathematical statistics, partial differentiation, and graduate-level econometrics.

COURSE OBJECTIVES

- Students will understand the potential outcomes framework, as well as the distinction between selection on observables and unobservables
- Students will understand a host of estimation techniques useful for estimating effects of binary treatments; specifically, what assumptions are required by each technique, what parameter the technique estimates, and how to interpret the parameter
- Students will become familiar with reading and presenting applied papers, as well as critiquing others’ work
- Students will understand how to apply various bootstrap techniques to perform inference
- Students will develop competency in Stata in order to apply the techniques learned

COURSE OUTCOMES AND EVALUATION CRITERIA

This course contributes to the program outcomes for the Ph.D. program in Economic Analysis and Policy by providing students with specialized knowledge and empirical tools for graduate-level applied economic analyses. Course objectives are measures via the course assignments which assess acquired substantive knowledge and analytical ability via written work. See below under “Coursework, Grades, and Grading Policies”.

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TEXTBOOKS
The required texts for this course are:


In addition, you will likely find use for a more advanced text during your graduate career. I would recommend buying one or both of the following:


All other readings are available online, either through a link to an electronic journal or through library e-reserve. Links are on this syllabus.

COURSEWORK, GRADES, AND GRADING POLICIES
Final course grades will be based on the following breakdown:

- Midterm exam (30%)
- Final exam (40%)
- Paper presentations (15%)
- Replication project (15%)

You will receive occasional problem sets, but you will not receive grades for these. I will return completed problem sets with minimal feedback and the solutions.

PAPER PRESENTATIONS
Each student will present five papers from the syllabus to the class, as if she were the author presenting the paper at a conference. Students can sign up for paper presentations on the following Google document: [http://goo.gl/RAB8G](http://goo.gl/RAB8G).

For most papers, the following questions can guide the presentation:

- What is the research question?
- What are the factors that confound causal identification?
- What methods do the authors propose?
- What are the identifying assumptions and how are the non-obvious assumptions justified?
- What data do they use?
- What do they find?
Students must prepare draft slides and submit them to the instructor for review at least three days before the presentation. Presentations should be written in LaTeX and Beamer, so the instructor can incorporate them into the lecture slides. Presentations should be approximately 10 minutes long, and students should prepare so that talks do not greatly exceed this length. A presentation template is shared here: https://www.dropbox.com/s/lzwrew4qeukvcsy/presentation_template.tex

**Paper Replication**

The replication project requires replicating a published economics paper from a top general-interest or field journal. This assignment will involve a 10-page write-up explaining the process of replication and comparing your results with the authors’ original findings. Students can find the replication assignment here: https://www.dropbox.com/s/rnzh5wjo7r3hhyi/replication_handout.pdf. Please post your replication choices here: http://goo.gl/uVnX2. Physical and electronic copies of the replication are due Monday, May 13, at 5PM.

**Exams**

The exams may cover any material from the assigned readings in the text, as well as any additional material that I cover in lecture. Students will be excused from the midterm exam only for valid medical or family emergencies. These excuses must be identified before the midterm and students must produce signed evidence verifying the reason why they cannot attend. If it is missed for a valid reason, weight will be reassigned from the other exams; otherwise, zero credit will be given.

The midterm exam is scheduled for Thursday, February 27. The final exam is scheduled for Saturday, May 10, from 9:00 A.M. –noon. The final exam will cover material from the entire semester. No makeup final exams will be allowed. If you will not be available during this time, please enroll in another course.

Students may ask that an exam be re-graded if they feel that a mistake has been made, by giving me a request in writing explaining their reasoning. The entire exam will be regraded and, after re-reading the exam, the grade may rise or fall. Of course, if a simple mistake has been made in adding up points, students should bring this to my attention and the grade will be changed.

**Class Schedule**

I will be attending a conference Thursday, January 16, so class on this day will be canceled.

**Academic Honesty**

All students must be familiar with and abide by Tulane’s Unified Code of Graduate Student Academic Conduct, which is available online at http://tulane.edu/provost/policies-and-publications.cfm. I take matters of academic honesty very seriously. A student who commits academic dishonesty disrespects the hard work of his classmates. Any student found cheating, plagiarizing, or colluding during the course will be referred to the Graduate Council. If you fall behind in your coursework and even feel tempted to be dishonest, please see me first so that we find a way for you to turn in your work late (but with some penalty). That said, students are encouraged to study together and to collaborate on homework, although each student must write up her own homework.

**Stata and Computer Use**

The course will require use of the econometric package Stata, which can be found on all of the computers in Tilton 307. Stata Corp. has a list of excellent web-based tutorials for learning how to use Stata:

There are useful resources for working through the problems in the texts in Stata at the following sites:

- [http://www.ats.ucla.edu/stat/stata/examples/greene/default.htm](http://www.ats.ucla.edu/stat/stata/examples/greene/default.htm)
- [http://fmwww.bc.edu/gstat/examples/wooldridge/wooldridge.html](http://fmwww.bc.edu/gstat/examples/wooldridge/wooldridge.html)
- [http://www.princeton.edu/~otorres/Stata](http://www.princeton.edu/~otorres/Stata)
**Schedule and Topics**

M denotes mandatory readings, P readings to be presented individually, GP readings to be presented as a group, and R readings that are not required but can serve as a reference in the future.

- **Overview**
  - Econometrics in practice
    - **M** Leamer (1983); Freedman (1991); Griliches (1985)
  - Motivation
    - **M** Taubes (2007)
  - Potential outcomes model and the fundamental problem of causal inference
    - **M** Angrist and Pischke (2008, ch. 1)
    - **M** Holland (1986)
  - Causal modeling and directed acyclic graphs
    - **M** Morgan and Winship (2007, s. 1.6, ch. 3)
    - **R** Pearl (1995, 2009); White and Lu (2010); Pearl (2014); Heckman and Pinto (2014); Pearl (2013); Gelman and Imbens (2013); Richardson and Robins (2013b,a); O’Malley et al. (2014)
  - Overview of contemporary techniques
    - **M** DiNardo and Lee (2011); Imbens and Wooldridge (2009)
    - **R** Angrist and Krueger (1999, 2001)

- **Randomization and randomized control trials**
  - **M** Angrist and Pischke (2008, ch. 2)
  - Motivation
    - **M** LaLonde (1986)
    - **R** Glazerman et al. (2002)
  - Experimental design
    - **M** Duflo et al. (2008)
    - **R** List et al. (2011); Ludwig et al. (2011); Bloom (1995); Faul et al. (2009); Gerber and Green (2012); Glennerster and Takavarasha (2013); Abadie et al. (2013); Fisher (1971); Coffman and Niederle (2014)
  - Examples
    - **P** Miguel and Kremer (2004); Fehr and Goette (2007); Bertrand and Mullainathan (2004); Angrist et al. (2006, 2010); Kling et al. (2007); Ashraf et al. (2006); Bertrand et al. (2010); Bartling et al. (2012); Gneezy et al. (2003); List (2004, 2008); Fryer (2011); Neumark (2012); Pallais (2013); Angrist (1990); Angrist and Lavy (2009); Doleac and Stein (2013); Chattopadhyay and Duflo (2004); Duflo and Saez (2003); Banerjee et al. (2007); Hanna et al. (2012); Crépon et al. (2013); Katz et al. (2001)

- **Selection on observables**
  - Regression, propensity score, and matching
∗ Textbook and software references
M Angrist and Pischke (2008, ch. 3)
R Wooldridge (2010, sec. 21.3)

∗ Estimation and interpretation
M Caliendo and Kopeinig (2008); Huber et al. (2010)
R Caliendo et al. (2014); Imbens (2014b); Dehejia and Wahba (1999); Smith and Todd (2005); Heckman et al. (1997); Hirano et al. (2003); Rosenbaum and Rubin (1984); Lechner and Wunsch (2013); Abadie and Imbens (2006); Busso et al. (2014); Frölich (2004); Rosenbaum and Rubin (1983); Sekhon (2009)

∗ Examples
P Card and Sullivan (1988); Angrist (1998); Ichino et al. (2008); Lechner (1999, 2002); Diaz and Handa (2006); Levine and Painter (2003); Michalopoulos et al. (2004); Blattman and Annan (2010); Hotz et al. (2006); Mueser et al. (2007); Hastings et al. (2007); Flores et al. (2011)

– Nonparametric approaches
– Regression discontinuity

∗ Textbook and software references
M Angrist and Pischke (2008, ch. 6)
R Wooldridge (2010, sec. 21.5)

∗ Estimation and identification
M Imbens and Lemieux (2008)
R Hahn et al. (2001)
∗ Bandwidth choice: Calonico et al. (2013); Imbens and Kalyanaraman (2012)
∗ Manipulation density test: McCrary (2008)
∗ Heaping in running variable: Barreca et al. (2011)
∗ Uncertain threshold location: Ozier (2011)
∗ Multiple assignment variables: Papay et al. (2011)
∗ RD with noneligible controls: Battistin and Rettore (2008)
∗ Polynomials: Gelman and Imbens (2014)
∗ Duration outcomes: van den Berg et al. (2014)
∗ Heterogeneity: Bertanha and Imbens (2014)
∗ Away from the cutoff: Angrist and Rokkanen (2012)
∗ Spatial RD: Black (1999); Dell (2010); Michalopoulos and Papaioannou (2014)

∗ Examples
P Angrist and Lavy (1999); Black (1999); Van Der Klaauw (2002); DiNardo and Lee (2004); Lee et al. (2004); Chay et al. (2005); Ludwig and Miller (2007); Chen and Shapiro (2007); Lee (2008); Card et al. (2008, 2009); Anderson and Magruder (2012); Lee and McCrary (2009); Allcott (2011); Urquiola and Verhoogen (2009); Greenstone and Gallagher (2008); Elder (2010); Cutler and Neidell (2009); Cellini et al. (2010); Malamud and Pop-Eleches (2011); Becker et al. (2013); Clark (2009); Yelowitz (1995); Clark and Martorell (2014)
R Lee and Lemieux (2010); Campbell (1969)
- Distributional approaches
  
  **M** Koenker and Hallock (2001); Bitler et al. (2006)
  
  **R** Cameron and Trivedi (2009, ch. 7); Frandsen et al. (2010); Bitler et al. (2014); Kline and Tartari (2015)

- Selection on unobservables

- Panel data and differences-in-differences
  
  * Textbook references
    
    **M** Angrist and Pischke (2008, ch. 5)
    **R** Cameron and Trivedi (2009, ch. 8), Chamberlain (1984)

  * Identification
    
    **M** Meyer (1995); Chetty et al. (2013a, b)
    **R** Griliches and Hausman (1986); Conley and Taber (2010); Gelbach et al. (2013); Rothstein (2010); Bjerk (2009); Stacy et al. (2013)

  * Examples
    
    **P** Hanna and Oliva (2011); Almond et al. (2005); Duflo (2001); Card (1990); Wolfers (2006); Dranove et al. (2003); Linden and Rockoff (2008); Acemoglu and Angrist (2001); Tyler et al. (2000); Meyer et al. (1995); Moretti (2004); Rivkin et al. (2005); Di Tella and Scharfstein (2004); Autor et al. (2006); Finkelstein (2004); Gruber (1994); Davis (2004); Neidell (2009); Dube et al. (2011); Anwar et al. (2012); Zivin and Neidell (2014); Greenstone et al. (2010); Ashenfelter (1978); Ashenfelter and Card (1985); Gormley and Gayer (2005); Heckman and Smith (1999)
    
    **R** Card and Sullivan (1988); Card and Krueger (1994); Neumark and Wascher (1992); Ashenfelter and Krueger (1994)

  * Natural experiments?
    
    **R** Rosenzweig and Wolpin (2000); Besley and Case (2000)

  * Synthetic controls and semiparametrics
    
    **M** Abadie et al. (2010)
    **R** Abadie (2005); Abadie and Gardeazabal (2003); Cavallo et al. (2013)

  * Nonlinear panel models
    
    - Fixed effects:
      
      **R** Neyman and Scott (1948); Bester and Hansen (2013); Bonhomme and Manresa (2012)

  * Distributional approaches
    
    **M** Bonhomme and Sauder (2010)
    **R** Athey and Imbens (2006), Shimshack and Ward (2010)

- Instrumental variables and control functions
  
  * Textbook references
    
    **M** Angrist and Pischke (2008, ch. 4)
    **R** Wooldridge (2010, sec. 21.4); Cameron and Trivedi (2009, ch. 6); Imbens (2014a)

  * Weak instruments, exclusion restriction violations
    
    **M** Angrist and Krueger (1991); Bound et al. (1995)
R Olea and Pflueger (2013); Staiger and Stock (1997); Stock et al. (2002); Conley et al. (2010); Flores-Lagunes (2007); Finlay and Magnusson (2009); Nevo and Rosen (2010); Buckles and Hungeman (2013); Shea (1997)

∗ Instrument selection
R Hausman (1978)

∗ What does IV estimate?
M Imbens and Angrist (1994); Kling (2001)
R Heckman and Vytlacil (2005); Angrist et al. (1996); Angrist and Imbens (1995); Vytlacil (2002); Card (1999); Angrist and Fernandez-Val (2010); Heckman (1997)

∗ Examples
P McClellan et al. (1994); Angrist (1990); Angrist and Evans (1998); Chay and Greenstone (2003); Lochner and Moretti (2004); Lleras-Muney (2005); Hotz et al. (2005); Thornton (2008); Goldman et al. (2001); Doyle (2007); Anderson and Marmot (2012); Cutler and Gruber (1996a); Currie and Gruber (1996b); Chay and Greenstone (2005); Ashenfelter and Greenstone (2004); Bayer et al. (2009); Dutlo (2004); Dutlo and Pande (2007); Kling (2006)
R Sexton and Hebel (1984); Permutt and Hebel (1989); Snow (1855)

∗ Nonlinear second stages, residual inclusion, etc.
R Terza et al. (2008); Skeels and Taylor (2014); Lewbel et al. (2012)

∗ Heterogeneity
R Angrist (2004); Oreopoulos (2006)

∗ Mediation analysis
R Frölich and Huber (2014)

∗ Functional form
R Frölich (2007); Bhattacharya et al. (2006); Angrist (2001)

∗ Control functions
M Evans and Schwab (1995)
R Heckman (1979, 1974); Joo and LaLonde (2014)

– Distributional approaches
M Angrist and Pischke (2008) ch. 7)

∗ Examples
R Autor et al. (2012); Chernozhukov and Hansen (2004); Abadie et al. (2002)

∗ Testing for heterogeneity
R Abadie (2002)

∗ Identification

– Bounds and partial identification

∗ Derivation

∗ Examples
M Bhattacharya et al. (2005); Lee (2009)
R Manski et al. (1992); van Hasselt and Bollinger (2012)
* Variance estimation
  - Textbook references
    M Angrist and Pischke (2008, ch. 8)
    R Cameron and Trivedi (2005, ch. 24)
  - Example
    R Nieuwenhuis et al. (2011)
  - General problems of White’s estimator
    R Chesher and Jewitt (1987)
  - Inference concepts, randomization and permutation inference
    M Hartley and Sielken (1975); Abadie et al. (2014)
  - Multiple comparisons problem
    R http://xkcd.com/882
  - Clustered sampling
    M Bertrand et al. (2004); Cameron et al. (2006)
    R Moulton (1986, 1990); Kézdi (2004); Donald and Lang (2007); Conley and Taber (2010); Wooldridge (2003); Barrios et al. (2010)
  - Weighting
    M Solon et al. (2013)
    R Gibbons et al. (2014)
  - Bootstrapping
    M Cameron and Trivedi (2005, ch. 11); Cameron et al. (2008)
    R Brownstone and Valletta (2001); Finlay and Magnusson (2014); Cameron and Trivedi (2009, ch. 13)

* Good empirical practices
  - Visualizing data and estimates
    M Wainer (1984); Beck (2010); Kastellec and Leoni (2007)
    R Wickham and Stryjewski (????); Gelman et al. (2002); Tufte (2001); Robbins (2004)
  - Replicability, good data and programming practices
• Benefit-cost analysis, statistical versus economic significance

M Gentzkow and Shapiro (2013); Donohue and Wolters (2005)
R Hamermesh (2007); Koenker and Zeileis (2009)

– Publication bias
R DeLong and Lang (1992); Turner et al. (2008); Franco et al. (2014)

• Structural econometrics

M Beatty and Shimshack (2011); McCloskey and Ziliak (1996); Hahn and Dudley (2007)
R Gelman and Stern (2006); Andrew Gelman (2009); Cowles and Davis (1982); Browner and Newman (1987); McCloskey (1985)

– From program evaluation to policy
R Carrell et al. (2013); Sampson et al. (2013); Nagin and Weisburd (2013)

• Data issues (as time permits)

– Surveying overview
R Deaton (1997)
– Selection bias
– Choice of sample
R Wolfe et al. (1996)
– Measurement error
R Hausman (2001); Hausman et al. (1998)
– Attrition
– Survey misreporting
– Big data and machine learning
R Fan et al. (2014)

• Data sets (as time permits)

R Hamermesh et al. (2005); Dee et al. (1999); Evans et al. (2000); Brown et al. (1996);
Pergamit et al. (2001); Polivka (1996); Overman (2010)

– Tools for geographic data: Ozimek and Miles (2011); http://www.macwright.org/mapschool/
https://sites.google.com/site/mkudamatsu/gis
– Survey design
R Deaton (1997)

• Other techniques (as time permits)

– Non-market valuation
- Peer effects and externalities
  - Louviere et al. (2000); Hensher et al. (2005); Kjaer (2005); Diamond and Hausman (1994)
  - Manski (1993); Sacerdote (2001); Angrist (2013)
- Measuring expectations
  - Manski (2004); Lochner (2007)
- Nonparametric and semiparametric estimation
  - DiNardo and Tobias (2001); Cameron and Trivedi (2009, ch. 9)
  - Fan and Gijbels (1996); Frölich (2006); Pagan and Ullah (1999)
- High dimension problems
  - Belloni et al. (2014); Belloni et al. (2010)
- Comparing distributions
  - Zhang (2002)
- Spatial econometrics
  - Anselin (2002); Gibbons and Overman (2012); Pinkse and Slade (2010); McMillen (2010); Gelman and Price (1999)

- Final thoughts
  - Humor
    - Smith and Pell (2003); Thurman and Fisher (1988); Bechtold (1999); Herring et al. (2013)
  - Debates
    - Heckman (2010); Imbens (2010); Deaton (2010); Angrist and Pischke (2010); Sims (2010)
ARTICLES AND BOOKS ON THE SYLLABUS

http://pubs.amstat.org/doi/abs/10.1198/016214502753479419

http://dx.doi.org/10.1093/restud/72.1.1

http://dx.doi.org/10.1111/1468-0262.00270

http://www.nber.org/papers/w20325

http://www.nber.org/papers/w19742


http://dx.doi.org/10.1257/00028280321455189

http://www.jstor.org/stable/3598929

http://www.jstor.org/stable/10.1086/322836


http://dx.doi.org/10.1162/003355305774268228

[http://www.nber.org/papers/w20781](http://www.nber.org/papers/w20781)


[http://www.stat.columbia.edu/~gelman/research/published/power4r.pdf](http://www.stat.columbia.edu/~gelman/research/published/power4r.pdf)


[http://www.nber.org/papers/w18662](http://www.nber.org/papers/w18662)

[http://dx.doi.org/10.2307/2006669](http://dx.doi.org/10.2307/2006669)

[http://dx.doi.org/10.2307/2998558](http://dx.doi.org/10.2307/2998558)


http://dx.doi.org/10.1257/aer.100.2.239

http://www.jstor.org/stable/116844

http://www.nber.org/papers/w16566

http://www.jstor.org/stable/2291054

http://www.jstor.org/stable/2291629

http://dx.doi.org/10.2307/2937954


http://www.aeaweb.org/articles.php?doi=10.1257/jep.15.4.69

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January 27, 2015


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http://www.jstor.org/stable/1924332

http://www.jstor.org/stable/1924810

http://www.jstor.org/stable/10.1086/379932

http://qje.oxfordjournals.org/content/121/2/635.abstract

http://www.jstor.org/stable/3598807

http://dx.doi.org/10.1162/rest.88.2.211

http://www.nber.org/papers/w17972

http://www.jstor.org/stable/2965583

http://www.nber.org/papers/w17408

Barrios, Thomas, Rebecca Diamond, Guido W. Imbens, and Michal Kolesar. 2010. Clustering, Spatial Correlations and Randomization Inference. Unpublished manuscript.


http://rrp.sagepub.com/content/31/3/40.abstract

http://polmeth.wustl.edu/methodologist/tpm_v18_n1.pdf

http://www.aeaweb.org/articles.php?doi=10.1257/pol.5.4.29


http://www.aeaweb.org/articles.php?doi=10.1257/jep.28.2.29

http://www.nber.org/papers/w20773


http://ideas.repec.org/p/cmf/wpaper/wp2012_1208.html

http://dx.doi.org/10.1162/rest_a_00164

http://www.jstor.org/stable/2291055

http://www.jstor.org/stable/2138487

http://dx.doi.org/10.1001/jama.1987.03390180077027

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http://dx.doi.org/10.1162/REST_a_00314

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http://dx.doi.org/10.1111/j.1467-6419.2007.00527.x

http://ideas.repec.org/p/iza/izadps/dp8337.html


http://dx.doi.org/10.1198/jbes.2010.07136


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Cutter, W. Bowman and Matthew Neidell. 2009. Voluntary Information Programs and Environmental Regulation: Evidence From “Spare the Air”. Journal of Environmental Economics and

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http://www.jstor.org/stable/2669919

http://dx.doi.org/10.3982/ECTA8121

http://www.jstor.org/stable/2138833

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http://www.jstor.org/stable/2138338

http://jhr.uwpress.org/content/XLI/2/319.abstract

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http://qje.oxfordjournals.org/content/118/3/815.abstract


http://www.jstor.org/stable/2647082


http://www.amazon.com/Local-Polynomial-Modelling-Its-Applications/dp/0412983214


http://nsr.oxfordjournals.org/content/1/2/293.abstract


http://dx.doi.org/10.3758/BRM.41.4.1149


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http://dx.doi.org/10.1162/REST_a_00428


http://qje.oxfordjournals.org/content/119/2/527.abstract


http://ideas.repec.org/a/tsj/stataj/v9y2009i3p398-421.html


http://dx.doi.org/10.1162/REST_a_00177

http://dx.doi.org/10.1002/jae.916

http://www.sciencemag.org/content/early/2014/08/27/science.1255484.abstract


http://dx.doi.org/10.2307/270939

http://www.jstor.org/stable/3211661


http://dx.doi.org/10.1016/j.jeconom.2006.06.004


http://qje.oxfordjournals.org/content/126/4/1755.abstract

http://aler.oxfordjournals.org/content/15/2/495.abstract

http://www.nber.org/papers/w19614

http://www.nber.org/papers/w20405


http://qje.oxfordjournals.org/content/123/3/951.abstract


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http://dx.doi.org/10.1016/0304-4076(86)90058-8


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http://www.nber.org/papers/w13026


http://www.jstor.org/stable/4135000


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