Teacher Mobility and External Contextual Factors: The Case of Michigan High Schools

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Problem

- Teacher Mobility
 - To What Extent?
 - Nationally 15% (Keigher & Cross 2010)
 - Michigan 13%
 - Why?
 - School Demographics (Allensworth, Ponisciak, & Mazzeo 2009; Keigher & Cross 2010)
 - Poor Working Conditions (Ingersoll 2001; Kukla-Acedvedo 2009; Stuit and Smith 2010)

Research Questions

 (1)To what extent is the implementation of a curricular policy related to teacher mobility?

 (2)To what extent is an economic crisis related to teacher mobility?

• (3)To what extent is there variation in teacher mobility within the school year and by locale?

External Context

- Policy Factors
 - Few studies examine policy and mobility (Kessler 2010)
 - Michigan Merit Curriculum (MMC)

- Economic Factors
 - National recession
 - Declining Michigan economy

Michigan Merit Curriculum High School Graduation Requirements

MATHEMATICS - 4 Credits

Algebra I Geometry

Algebra II One math course in final year of high school

ENGLISH LANGUAGE ARTS - 4 Credits

English Language Arts 9 English Language Arts 11 English Language Arts 10 English Language Arts 12

SCIENCE - 3 Credits

Biology One additional science credit

Physics or Chemistry

SOCIAL STUDIES - 3 Credits

.5 credit in Civics .5 credit in Economics

U.S. History and Geography World History and Geography

PHYSICAL EDUCATION & HEALTH - 1 Credit

VISUAL, PERFORMING AND APPLIED ARTS - 1 Credit

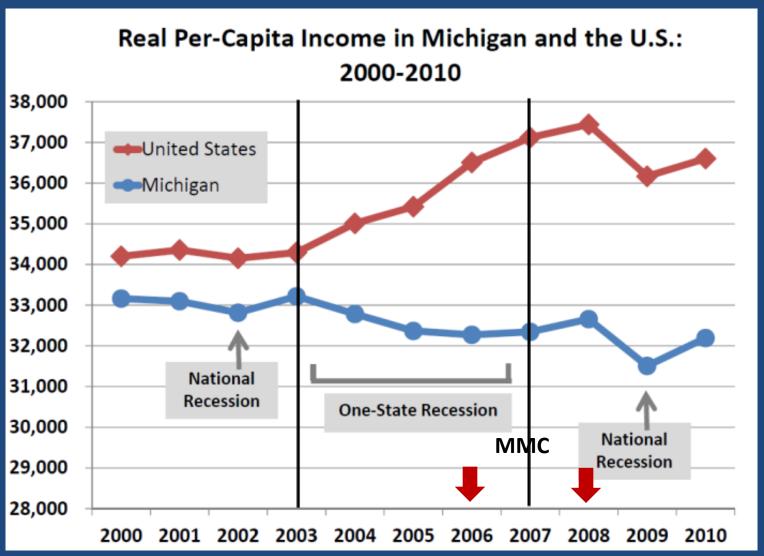
ONLINE LEARNING EXPERIENCE

Course, Learning or Integrated Learning Experience

LANGUAGE OTHER THAN ENGLISH - 2 Credits

In grades 9-12; OR an equivalent learning experience in grades K-12 effective for students entering third grade in 2006 (Class 2016)

One State Recession



Source: "Real Per-Capita Personal Income in Michigan and the U.S.:2000-2010" by the Michigan Department of Technology, Management, & Budget

Methodology

- Semesters nested within schools
- State of Michigan
 - School Location
 - City
 - Suburban
 - Town
 - Rural

Data

- Registry of Personnel Data (REP)
 - 2003-04 through 2010-11
 - 17,931 to 22, 399 Full Time High School Teachers
 - 607 School

Data

- Teacher Mobility
 - Is the teacher's primary teaching assignment in the same school in the current semester as it was in the prior semester?
- Context
 - MMC
 - 2006 (announcement)
 - 2008 (implementation)
 - Recession
 - 2010-2011

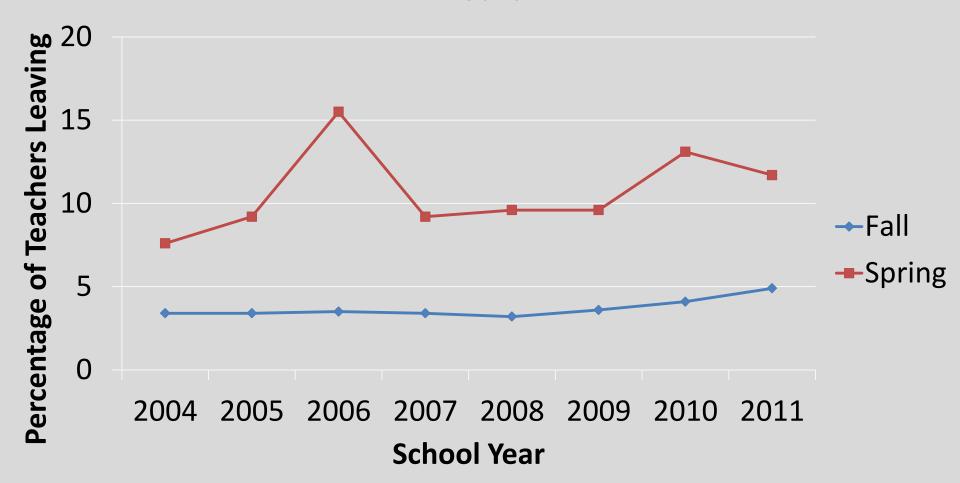
Methods

- HLM
 - Time nested with schools
 - Separate models
 - Location
 - Detroit

- Fixed Effects
 - Results are consistent

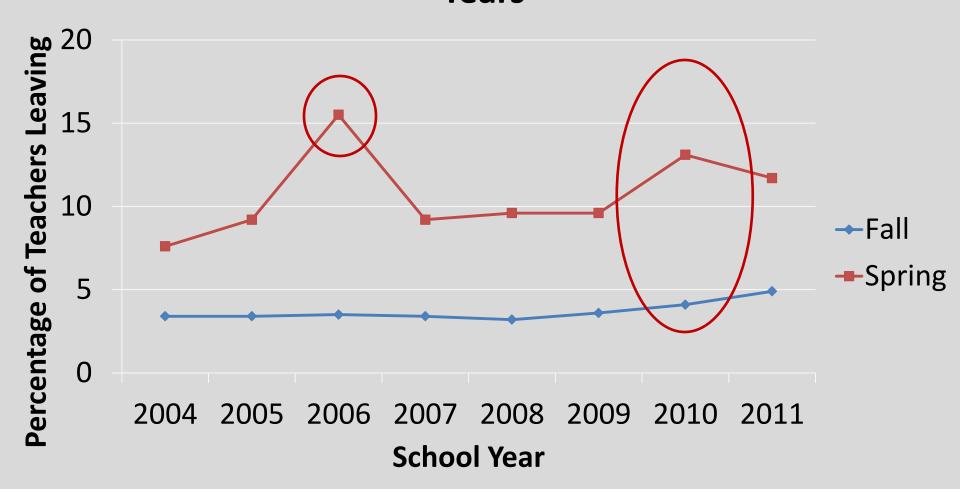
Timing





Timing

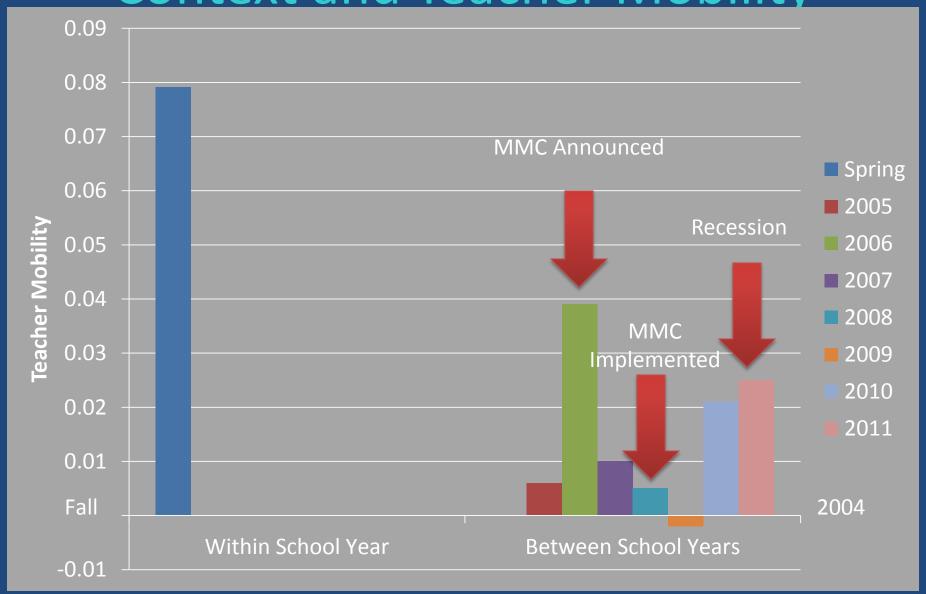
Teacher Mobility Between and Within School Years



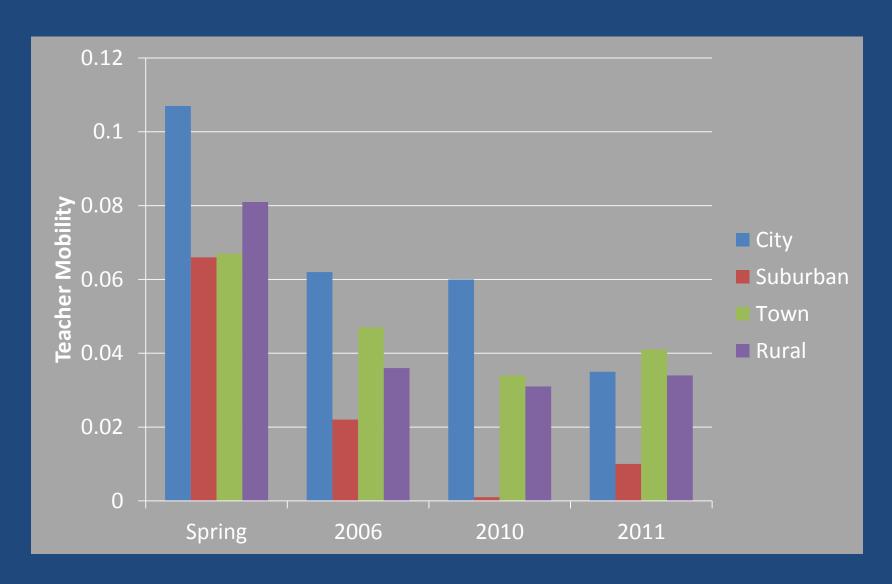
School Characteristics

- Teachers tend to leave schools....
 - Higher poverty schools
 - Higher minority schools
 - Higher mobility (student and principal) schools
 - Smaller schools
 - City schools
 - Schools with higher percentages of novice teachers

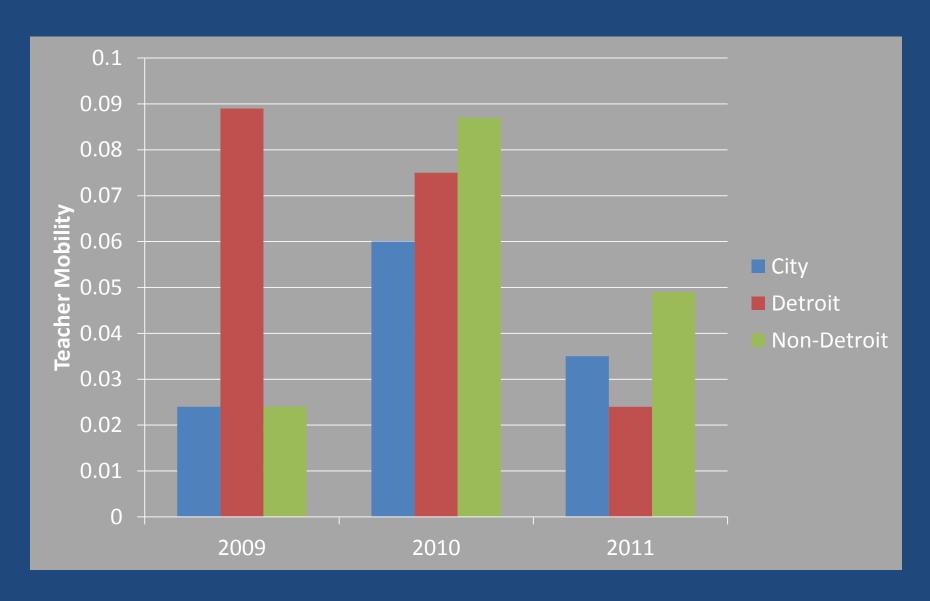
Context and Teacher Mobility



Location



Detroit



Conclusions

- Teachers leave more disadvantaged schools
- Fall mobility is higher than we would expect
- Significant increases in mobility around the MMC and the recession
- Patterns are not the same by location

THANK YOU