

# Mahdiyeh Entezarkheir

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## University of Waterloo

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### **Citizenship**

Canadian, Iranian.

### **Education**

Ph.D. in Economics, University of Waterloo, Defended (July 26, 2010).  
Thesis Title: Essays on Innovation, Patents, and Econometrics.  
Advisors: Mikko Packalen, Lutz-Alexander Busch, Anindya Sen.  
M.A. in Economics, University of Manitoba, August 2004.  
B.A. in Economics, Azzahra University, Tehran, Iran, August 2001.

### **Fields of Interest**

Industrial Organization, Applied Econometrics, Microeconomics.

### **Job Market Paper**

*“Patent Thickets, Defensive Patenting, and Induced R&D: An Empirical Analysis of the Costs and Unintended Potential Benefits of Fragmentation in Patent Ownership,”*  
October 2010.

Patent thickets are sets of overlapping property rights that occur in fragmented technology markets, and increase the costs of commercializing innovations due to transaction costs, double marginalization, and the possibility of hold-up and prolonged litigation. These costs of patent thickets have become an increasing concern in the recent years. In this paper I estimate the direct and indirect effects of patent thickets on market value of firms using panel data on 1,272 publicly traded US manufacturing firms from

1979 to 1996. I find that patent thickets decrease the market value of firms, holding R&D and patenting activities of firms constant. I also find that while firms do not change their R&D activities in response to patent thickets, through defensive patenting firms are able to reduce but not eliminate the negative impact that patent thickets have on market value.

### **Research Papers**

“Patent thickets and market value: An empirical analysis,” 2010.

“Missing Observations on a Variable: A Comparison of the Listwise Deletion and Indicator Approaches,” 2010, with Mikko Packalen.

### **Publications**

#### **Refereed**

Mahdiyeh Entezarkheir, Anindya Sen, and Alan Wilson, 2010, “Obesity, smoking, and cigarette taxes: evidence from the Canadian Community Health Surveys,” *Health Policy*, Vol. 97, No. 2, 180-186.

Mahdiyeh Entezarkheir, 2006, “The relation between inflation and inflation uncertainty in Iran,” *Iranian Economic Review*, Vol.11, No.17, 1-20.

#### **Non-Refereed**

Mahdiyeh Entezarkheir, 2006, “Why is Iran experiencing migration and brain drain to Canada?” *34th Annual Conference of the Atlantic Canada Economic Association, Papers & Proceedings*.

Mahdiyeh Entezarkheir, 2006, “Government’s support for innovation: A literature review,” *A report to the Office of Economic Policy, Ontario Ministry of Finance, Queen’s Park*.

### **Conference Presentations**

International Industrial Organization Conference (Boston, 2009).

“Direct and indirect impacts of patent thicket and its spillovers on the market value: An empirical analysis”

The Canadian Economic Association Annual Meetings (Toronto, 2009).

“Direct and indirect impacts of patent thicket and its spillovers on the market value: An empirical analysis”

European Association for Research in Industrial Economics (Toulouse, 2008).

“Patent thicket and market value: An empirical analysis”

The Canadian Economic Association Annual Meetings (Vancouver, 2008).

“Patent thicket and market value: An empirical analysis”

Small Open Economies in the Globalized World (Waterloo, 2008).

“Patent thicket and market value: An empirical analysis”

Atlantic Canada Economic Association (Halifax, 2005).

“Why is Iran experiencing migration and brain drain to Canada?”

## **Teaching Experience**

### **Instructor** (University of Waterloo)

Undergraduate: Microeconomic Theory, Spring and Fall 2009, Spring and Fall 2010.

Undergraduate: Introduction to Mathematical Economics, Winter 2010 and 2011.

### **Certificate in University Teaching** (University of Waterloo)

Centre for Teaching Excellence, Fall 2009.

### **Teaching Assistant** (University of Waterloo)

Graduate: Monetary Theory and Banking, Microeconomic Theory, Econometrics  
(STATA Assistant).

Undergraduate: Monetary Economics, Topics in Money and Finance, Labour Economics,  
Econometrics (STATA Assistant).

## **Honours and Awards**

Doctoral Thesis Completion Award, University of Waterloo, 2009.

Kenneth Stollery Memorial Graduate Award, University of Waterloo, 2009.

Arts Graduate Experience Award, University of Waterloo, 2008-2009.

Annual Conference Travel Grant, Canadian Economic Association, 2008.

Balsillie Fellowship, The Centre for International Governance Innovation (CIGI),  
Canada, 2006-2007.

Departmental Scholarship, University of Waterloo, 2006-2007.

Merit Scholarship, University of Waterloo, 2005-2006.

Graduate Entrance Scholarship, University of Waterloo, 2004-2005.

International Graduate Student Award, University of Waterloo, 2004-2007.

Graduate Fellowship, University of Manitoba, 2002-2004.

Top Economic student, Azzahra University, Tehran, Iran, 2001.

## **Employment History**

Research Assistant, Centre for International Governance Innovation (CIGI), Waterloo,  
Canada, 2006- 2007.

Research Analyst, Ontario Ministry of Finance, Queen's Park, Toronto, 2006.

Research Assistant, University of Manitoba, Winnipeg, 2003-2004.

Research Assistant, Institute for Trade, Study and Research, Tehran, Iran, 2000.

Research Assistant, Tehran Bond Market, Tehran, 1999.

## **Computer Skills**

STATA, GAMS, EVIEWS and MATHCAD.

## **References**

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