

## CURRICULUM VITA

October 2014

School of Economic Sciences  
Washington State University  
Pullman, WA 99163

Citizenship: Indian

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Visa Type: F-1

### SAS Certified Base Programmer for SAS 9

### RESEARCH INTERESTS:

Econometrics, Statistics, International Trade and Development Economics.

### EDUCATION:

- **Ph.D., Economics**, Washington State University (expected) May 2015  
Dissertation: Essays on *Trade, Immigration, and Microfinance*  
Advisor: Dr. Andrew Cassey
- **M.S., Statistics**, Washington State University (expected) May 2015  
Thesis: *Discrete and Continuous Regression to Predict Bloom Stages for Apples Growth*. Advisor: Dr. Nairanjana Dasgupta
- **M.S., Agricultural Economics**, University of Arizona May 2010  
Thesis: *A Bivariate Probit Model of Disaster Assistance and Crop Insurance Participation*. Advisor: Dr. George Frisvold
- **Post Graduate Diploma, Agribusiness Management**, IIPM, Bangalore India Dec 2003
- **B.Sc., Agriculture**, A.N.G.R.A.U, Tirupati, India Aug 2001

### EXTENSION PUBLICATIONS:

- Cassey, Andrew J. and Pavan Dhanireddy. 2013. "The New Free Trade Agreements and Washington State Exporters" Washington State University Extension manual FS114E, August 1, <http://cru.cahe.wsu.edu/CEPublications/FS114E/FS114E.pdf>
- Cassey, Andrew J. and Pavan Dhanireddy. 2011. "A Primer on Exchange Rates and Exporting" Washington State University Extension manual EM041E, October 1, <http://cru.cahe.wsu.edu/CEPublications/EM041E/EM041E.pdf>

### PAPERS IN PROGRESS:

- Pavan Dhanireddy. "Was SAFTA Beneficial for Regional Trade?"
- Pavan Dhanireddy "Factors Influencing the Settlement of Illegal Immigrants in the United States."
- Pavan, Dhanireddy and Frisvold George "A Bivariate Probit Model of Disaster Assistance and Crop Insurance Participation."
- Pavan, Dhanireddy, Gnel Gabrielyan and Jia Yan "The Factors Affecting the Car Crashes in the U.S. and Developing Countries: The Implications of Cell Phone Laws on Developing Countries."
- Pavan, Dhanireddy and Nairanjana Dasgupta. "Discrete and Continuous Regression to Predict Bloom Stages for Apple Growth."

## RESEARCH GRANTS:

The Factors Affecting Car Crashes in the U.S. and Developing Countries: The Implications of Cell Phone Laws on Developing Countries.” Jia Yan, **Pavan Dhanireddy** (co-investigator), Gnel Gabrielyan. The Road Traffic Injuries Research Network: Small Grants Program.  
Applied – Present

## PRESENTATIONS AND PROFESSIONAL CONFERENCES:

- Pavan Dhanireddy. 2014. “Factors influencing the movement of Illegal immigrants within the United States” presented at the 2014 Midwest Economics Association. March 21- March 23. Chicago, IL.
- Pavan Dhanireddy. 2014, with Gnel Gabrielyan and Jia Yan “The Impact of Cell Phone Laws on Car Crashes in the U.S.” presented at the 2014 Midwest Economics Association. March 21- March 23. Chicago, IL.
- Pavan Dhanireddy. 2013. “Has SAFTA Proved Beneficial for regional Trade?” presented at the 88<sup>th</sup> Western Economics Association International. June 28-July 2. Seattle, WA.
- Pavan Dhanireddy. 2013. “Has SAFTA Proved Beneficial for regional Trade?” presented at the Western Agricultural Economics Association. June 26-28. Monterey, CA.
- Pavan Dhanireddy. 2013. “Effects of South Asian Free Trade Agreement: Pre and Post Period Analysis” presented at the 47<sup>th</sup> Annual Pacific Northwest Regional Economic Conference. May 16-17. Spokane, WA.
- Pavan Dhanireddy. 2012, with George Frisvold “Disaster Assistance and Crop Insurance Participation in United States” presented at the 2012 Annual Meeting Agricultural & Applied Economic Association. August 12-14. Seattle, WA.
- Pavan Dhanireddy. 2012, with George Frisvold “Disaster Assistance and Crop Insurance Participation in U.S.” presented at the 46<sup>th</sup> Annual Pacific Northwest Regional Economic Conference. May 16-17. Seattle, WA.

## WORK EXPERIENCE:

Instructor:

Washington State University – EconS 327 Aug., 2014 – Present

Research Assistant:

Washington State University (Andrew Cassey) Aug., 2010 – June 2014

University of Arizona (George Frisvold) Aug., 2009 – May 2010

Guest Lecture: Washington State University, EconS571 Fall 2012

Teaching Assistant:

University of Arizona – Economics of Policy Analysis  
And Market & Price Analysis Aug., 2008 – May 2009

Project: American express – “Predicting Default Events and Balances for Small Business Customers” Using SAS 9.2. Fall 2009

Utilized logit model, Quantile regressions and Heckman two step approach to predict default events and balances

Model check using Lorenz curves (in-sample and out-sample)

Variable reduction using principle components analysis

Assistant Manager: Syndicate Bank, India Feb., 2005 – June 2008

Summer Trainee: BASICS, Micro Financial Institution, India Summer 2003

Project – “The Study of Status of Dairy in Mahaboob Nagar districts of Andhra Pradesh, India.”

Project coordinator: Ogilvy & Mather, Hyderabad, India Dec., 2003 – July 2004

Extension Specialist: Government of Andhra Pradesh, India 2000 – 2001

### **LEADERSHIP AND SERVICE:**

Senator, Graduate and Professional Student Association 2013-2014  
Washington State University

Secretary, SES Grad Student Association 2012-2013  
Washington State University

### **SCHOLARSHIPS:**

E. Ray Cowden Scholarship, University of Arizona (amount: \$2,000) 2009 – 2010  
The scholarship is for a graduate student with a focus on Agricultural and Life sciences.

Travel Grant Award, Graduate and Professional Student Association; Spring 2014  
Midwest Economics Association (amount: \$380), Western Agricultural Summer 2013  
Association (amount: \$300).

### **MEMBERSHIP:**

Agricultural and Applied Economic Association  
Western Economic Association International  
Western Agricultural Economic Association  
Midwest Economics Association

### **TECHNICAL SKILLS:**

- Statistical Packages: SAS (SAS IML, SAS SQL, SAS Macros), STATA, GAUSS SPSS.
- Databases: SQL, MS ACCESS.
- Tools: MS Office, LATEX.

### **LANGUAGES:**

English (fluent), Hindi and Telugu

### **REFERENCES:**

- **Dr. Andrew Cassey**, School of Economic Sciences, Washington State University, Pullman WA 99164, 509-335-8334, cassey@wsu.edu
- **Dr. Thomas L. Marsh**, School of Economic Sciences, Washington State University, Pullman WA 99164, 509-335-8597, tl\_marshall@wsu.edu
- **Dr. Nairanjana Dasgupta**, Department of Mathematics, Washington State University, Pullman WA 99164, 509-335-8645, dasgupta@wsu.edu

## **SUMMARY OF PAPERS:**

### **Paper 1: Was SAFTA Beneficial for Regional Trade?**

This paper uses the gravity equation to estimate the effect of export flows among member countries of the South Asian Free Trade Area (SAFTA) using panel data from 2001 – 2010. Poisson Pseudo Maximum Likelihood (PPML) estimator results show that the share of intraregional exports has grown by 107 percent during the post-SAFTA period (2006 – 2010) compared to the pre-SAFTA period (2001 – 2005). But I find that the increase in exports in SAFTA is not statistically different from the increase in exports of the Association of Southeast Asian Nations (ASEAN). Finally I study industries that are not subjected to reductions in tariff on the import flows between the member countries. Results are that imports on sensitive list products from partner countries decreased by 42 percent during the post-treaty period compared to pre-period.

### **Paper 2: Factors Influencing the Settlement of Illegal Immigrants within the United States.**

This paper identifies the important factors that determine the location of illegal immigrants within the United States. I estimate the effect of socioeconomic, agricultural, political, and enforcement variables on the number of illegal immigrants in the U.S. states using panel data from 1997 to 2010. Random effect regression results show that illegal immigrants settle in states with network effects and where the size of agricultural sector, construction sector and enforcement is higher. Similarly, illegal immigrants are less likely to be in states with higher unemployment rate. Probit model was used to examine the personal, demographic and socioeconomic characteristics on the illegal immigrants. I find that illegal immigrants are more likely to be males, with low education levels, and work in construction sector compared to legal immigrants.

### **Paper 3: Discrete and Continuous Regression to Predict Bloom Stages for Apple Growth.**

We develop both discrete and continuous models to predict the apple bloom stages using Julian date, weather data, and geographic information for Cripps Pink, Gala, and Red Delicious at 11 Washington state locations using the data from 2010 to 2013. Divided the period after dormancy to before fruitlet emerges into eight stages, the stages are denoted using letters from A to H. For the discrete model, an ordered logistic regression is used to predict the bloom stage. An ordinary least squares regression is used to predict the continuous number of days between any two adjacent stages. The results show that the discrete regression model in each location fits the data better and has a higher prediction power in general compared with the model for all locations. For the continuous model, the R-squares for Cripps Pink are relatively higher than Gala and Red Delicious.