

# Yijun (Susan) He

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## EDUCATION

- *Ph.D., Economics*, Washington University, St. Louis (May 2000)
- *M.A., Economics*, Washington University, St. Louis
- *B.S., Physics*, Sichuan University, Chengdu, Sichuan, China

## PROFESSIONAL EXPERIENCE

- **Washington State University**  
Fall 2000 – May 2008

### **Assistant Professor**

Courses taught: EconS 101, EconS 305, EconS311, Econ 320, and Econ 511.  
Primary research interests include continuous time econometrics, macroeconomic dynamics, and optimal control.

Fall 2008 – present

Courses taught:

- EconS 555 Managerial Economics (for MBA students)
- MgtOp 215 Business Statistics
- MgtOp 340 Operations Management
- Fin 325 Introduction to Financial Management
- Fin 425 Intermediate Financial Management
- Fin 421 Financial Institutions and Intermediation

## PUBLICATIONS

- “Existence of Singularity Bifurcation in an Euler-Equations Model of the United States Economy: Grandmont was Right” (with William A. Barnett), *Economic Modelling*, vol 27, no 6, November 2010, pp. 1345-1354.
- “Extended Generalized Purchasing Power Parity and Optimal Currency Area in East Asian Countries” (with Poomthan Rangakulnuwat, Sung Ahn, and Holly Wang), *Applied Economics*, 2010, 42, pp. 497-513.
- “Singularity Bifurcation” (with William A. Barnett), *Journal of Macroeconomics*, 2006, 28, pp. 5-22.
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- “Robustness of Inferences to Singularity Bifurcation” (with William Barnett), in: Proceedings of the Joint Statistical Meetings of the 2005 American Statistical Society, vol. 100, American Statistical Association, February, 2006.
- "An Examination of the Economic Theory of Civil Conflict" (with William S. Hallagan, Frederick S. Inaba, Mudziviri Nziramasanga, AKM Mahbub Morshed), Yoichiro Murakami, Noriko Kawamura, and Shin Chiba (ed.), *Toward a Peaceable Future: Redefining Peace, Security, and Kyosei from a Multidisciplinary Perspective*, Washington State University Press, 2005, Chapter 7, pp. 79-87.
- “Bifurcations in Macroeconomic Models” (with William A. Barnett), Stephen Dowrick, Rohan Pitchford, and Stephen J. Turnovsky (ed.), *Economic Growth and Macroeconomic Dynamics: Recent Developments in Economic Theory*, Cambridge University Press, 2004, pp. 95-112
- “Stabilization Policy as Bifurcation Selection: Would Stabilization Policy Work if the Economy Really Were Unstable?” (with William A. Barnett), *Macroeconomic Dynamics*, Vol. 6, November 2002, pp. 713-747.
- “Unsolved Econometric Problems in Nonlinearity, Chaos, and Bifurcation” (with William A. Barnett), *Central European Journal of Operation Research*, Vol. 9, July 2001, pp. 147-182.
- “Nonlinearity, Chaos, and Bifurcation: A Competition and an Experiment” (with William A. Barnett), Takashi Negishi, Rama Ramachandran and Kazuo Mino (ed.), *Economic Theory, Dynamics and Markets: Essays in Honor of Ryuzo Sato*, Klumer Academic Publishers, 2001, pp. 167-187.
- “Stability Analysis of Continuous Time Macroeconomic Systems” (with William A. Barnett), *Studies in Nonlinear Dynamics and Econometrics*, Vol. 3, no. 4, 1999, pp. 169-188.
- “Bifurcation Theory in Economic Dynamics” (with William A. Barnett), Shri Bhagwan Dahiya (ed.), *The Current State of Economic Science*, Vol. 1: 435-451, June 1999.
- “Analysis and Control of Bifurcations in Continuous Time Macroeconomic Systems” (with William A. Barnett), *Proceedings of the 37<sup>th</sup> IEEE Conference on Decision and Control*, December 1998, 2455-2460.

## WORKING PAPERS

“An Optimal Control Problem for the American Option Model” (with Hong-ming Yin), submitted to *Mathematical Finance*.

“Quasi-Arbitrage Opportunities in Financial Markets” (with Hong-ming Yin)