



Nanyang Technological University  
**DIVISION OF ECONOMICS**  
Seminar Series

The Division of Economics and Economic Growth Centre invite you to a seminar by Assistant Professor Yuchen SHAO

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- Speaker** : **Assistant Professor Yuchen SHAO**  
*School of Business*  
*Nanjing University*
- Topic** : **"Endogenous Product Cycles in Heterogeneous Industries and Intellectual Property Rights: Theory and Evidence"**
- Chairperson** : **Assistant Professor Xiaoping CHEN**  
*Division of Economics*  
*School of Humanities & Social Sciences*
- Date** : **16 September 2016 (Friday)**
- Time** : **10:30am to 11:30am**
- Venue** : **HSS Seminar Room 5 (HSS 04-89)**  
*Nanyang Technological University*  
*School of Humanities and Social Sciences*  
*14 Nanyang Drive*  
*Singapore 637332*

**About the Speaker:**

Yuchen Shao is currently an assistant professor in the School of Business of Nanjing University. The fields of specialization of her recent research are International Trade, Intellectual Property Rights and Economic Development. Her work focuses on the dynamics of technological change in trade and foreign direct investment, as well as the effects of imperfect intellectual property rights protection in developing countries. She is also interested in R&D and patent reform in China. Shao receives a bachelor's degree in Economics from Tsinghua University in Spring 2008 and a PhD's degree in Economics from the University of Colorado at Boulder in 2014.

**Abstract:**

This paper investigates product cycle dynamics with industrial heterogeneity in research and development (R&D) productivity, accounting for the imperfect protection of intellectual property rights. I develop a North-South model with endogenous Northern innovation, and foreign direct investment (FDI) which may face Southern imitation risk. Within each industry, innovation occurs in a quality ladder. In equilibrium, the product cycle only appears in industries with intermediate technology levels. Further, the risk of imitation shrinks the measure of industries exhibiting product-cycle dynamics. Stronger intellectual property protection in the South affects both the extensive and intensive margins of trade in product cycle goods. Estimations using a panel of detailed U.S. trade data find support for the theoretical predictions.

**Reservation:**

Admission is free. Please reply to [h-dae@ntu.edu.sg](mailto:h-dae@ntu.edu.sg) to confirm your attendance.