

# Liuchun Deng

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 Phone: +65 8434 0938

Male, DOB: 10/25/1988  
 Citizenship: China  
 Married with one child

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## CURRENT APPOINTMENTS

Assistant Professor of Economics, Yale-NUS College, 2019 – Present.  
 Assistant Professor of Economics (by courtesy), National University of Singapore, 2020 – Present.  
 Research Affiliate, Halle Institute for Economic Research (IWH), 2019 – Present.

## PREVIOUS APPOINTMENTS

Assistant Professor (“juniorprofessor”), Friedrich Schiller University of Jena, 2017 – 2019.  
 Economist, Halle Institute for Economic Research (IWH), 2017 – 2019.

## EDUCATION

Ph.D. in Economics, Johns Hopkins University, 2017.  
 B.A. in Economics & Statistics, Peking University, 2011.

## RESEARCH INTERESTS

International Trade, Economic Growth, Economics of Automation

## PUBLICATIONS

“Eventual Periodicity in the Two-Sector RSL Model: Equilibrium vis-à-vis Optimum Growth”, with Minako Fujio and M. Ali Khan, *Economic Theory*, 2021, 72, 615-639.  
 “The Miniature Two-Sector Model of Optimal Growth: The Neglected Case of a Capital-Intensive Investment-Good Sector”, with Minako Fujio, Yan Lei, and M. Ali Khan. *Journal of Economic Behavior and Organization*, 2021, 186, 662-671.  
 “Intergovernmental Communication under Decentralization”, with Shiyu Bo, Yufeng Sun, and Boqun Wang. *Journal of Economic Behavior and Organization*, 2021, 184, 606-652.  
 “Exact Parametric Restrictions for 3-Period Cycles in the RSS Model: A Complete and Comprehensive Characterization”, with M. Ali Khan and Tapan Mitra, *Journal of Mathematical Economics*, 2020, 90, 48-56.  
 “On Mitra’s Sufficient Condition for Topological Chaos: Seventeen Years Later”, with M. Ali Khan, *Economics Letters*, 2018, 164, 70-74.  
 “On Growing through Cycles: Matsuyama’s M-map and Li-Yorke Chaos”, with M. Ali Khan, *Journal of Mathematical Economics*, 2018, 74, 46-55.  
 “Criminal Network Formation and Optimal Detection Policy: The Role of Cascade of Detection”, with Yufeng Sun, *Journal of Economic Behavior and Organization*, 2017, 141, 43-63.  
 “The Effects of Local Elections on National Military Spending: A Cross-country Study”, with Yufeng Sun, *Defence and Peace Economics*, 2017, 28(3), 298-318.  
 “Regional Capital Flows and Economic Regimes: Evidence from China”, with Boqun Wang, *Economics Letters*, 2016, 141(3), 80-83.

## Special Issues

“Optimal Growth in the Two-Sector RSL Model with Capital-Intensive Consumption Goods: A Dynamic Programming Approach”, with Minako Fujio. *Pure and Applied Functional Analysis* (special issue in honor of M. Ali Khan), 2021, 6(5), 917-938.  
 “Optimal Growth in the Robinson-Shinkai-Leontief Model: The Case of Capital-Intensive Consumption Goods”, with Minako Fujio and M. Ali Khan, *Studies in Nonlinear Dynamics and Econometrics* (special

issue in honor of Kazuo Nishimura), 2019, 23(4), 20190032.

## WORKING PAPERS

“Specialization Dynamics, Convergence, and Idea Flows” (Wim Meeusen Prize, 7th EGI Conference, Italy, 2016; Best Paper in International Macroeconomics, 17th RIEF Doctoral Meetings, France, 2017).

“Continuous Unimodal Maps in Economic Dynamics: On Easily Verifiable Conditions for Topological Chaos”, with M. Ali Khan and Tapan Mitra, revision requested by *Journal of Economic Theory*

“Robot Adoption at German Plants”, with Verena Plümpe and Jens Stegmaier.

“On Sustainability, Survivability and Extinction: A Complete Characterization in the Miniature Two-Sector Model”, with Minako Fujio and M. Ali Khan.

“The Mechanics of Specialization Dynamics: A Network-formation Approach”.

“Trade, Income Risk, and Human Capital”, with Pravin Krishna, Mine Zeynep Senses, and Jens Stegmaier.

“On Li-Yorke Chaos Almost Everywhere: The Pervasiveness of Disjoint Extremally Scrambled Sets”, with M. Ali Khan and Ashvin Varada Rajan

“A Note on Product Cycles in the Product Space”.

## PRESENTATIONS

### Seminars

CAU/Virtual (May 2021), Yale-NUS (Feb 2019), ECNU (Dec 2018), HKBU (Dec 2018), FSU-Jena (May 2018), Harvard CID (Mar 2017), IWH (Feb 2017), U Sydney (Jan 2017), JHU SAIS (Nov 2016), Towson U (Nov 2016).

### Conferences/Workshops

Conference of the International Joseph Schumpeter Society, Luiss/Virtual (Jul 2021), ES China, Shanghai Tech/Virtual (Jul 2021), APTS, U Tokyo/Virtual (Jun 2021), ES Asia, Curtin U Malaysia/Virtual (Jun 2021), PEDD, U Münster (Feb 2019), NSE Winter Meeting, Peking U (Dec 2018), ASSET, U Florence (Nov 2018), ES Europe, Cologne (Aug 2018), SCERI-NSD Conference, SSE (Aug 2018), Game Theory Festival, Stony Brook (Jul 2018), ES China, Fudan U (June 2018), SMYE, Palma de Mallorca (May 2018), SNDE Symposium, Keio U (Mar 2018), Conference on Trade and Integration, Malmö (Oct 2017), GVC Workshop, UIBE (Aug 2017), Symposium of Development and Institutional Economics, Henan U (Jul 2017), RIEF Doctoral Meetings, U Lille (Jun 2017), CIGNE Summer School on Network Theory, Roscoff (Jun 2017), ES China, Wuhan U (Jun 2017), GCER, Georgetown (Jun 2017), CES-North America, U Alabama (Mar 2017), NSE Annual Conference, Peking U (Dec 2016), Midwest-Trade, Purdue U (Dec 2016), PhD Conference in Economics, U Leicester (Dec 2016), SEA, DC (Nov 2016), EGSC, WUSTL (Oct 2016), Workshop on Networks, U Arkansas, (Sep 2016), Rimini Conference, BSIA (Sep 2016), ETSG, Aalto U (Sep 2016), EGI, U Bari (Sep 2016), Game Theory Festival, Stony Brook (Jul 2016), APET, FGV/EPGE (Jul 2016), SAET, IMPA (Jul 2016), Conference on Network Science and Economics, Stanford (poster, Apr 2016), EEA, DC (Feb 2016), GEDays, U York (Jun 2013).

## REFEREE

*Applied Economics, Applied Economics Letters, Australian Economic Papers, China Economic Review, Economic Modelling, Economic Theory, Emerging Markets Finance and Trade, International Economic Review, International Journal of Economic Theory, International Journal of Game Theory, Journal of Macroeconomics, Macroeconomic Dynamics, PLOS One, Pure and Applied Functional Analysis, Review of Industrial Organization, Review of International Economics, Scandinavian Journal of Economics, Social Choice and Welfare, Studies in Nonlinear Dynamics and Econometrics, World Economy*, and Routledge Book Proposal.

## RESEARCH DISSEMINATION

“Commentary: Didi’s troubles with China should be everyone’s business”, with Jiwei Qian, *CNA*, Jul 2021.

“Automatisierung in Deutschland: Was treibt die vermehrte Roboternutzung?”, with Verena Plümpe and Jens Stegmaier, *Ökonomenstimme*, May 2021.

“What Is Driving the Adoption of Robots in Industry?”, with Verena Plümpe and Jens Stegmaier, *UNIDO Industrial Analytics Platform*, Apr 2021.

“Kollege Roboter, wie geht es Ihnen?”, with Verena Plümpe and Jens Stegmaier, *Süddeutsche Zeitung*, Mar 2021.

“Robot Adoption at German Plants”, with Verena Plümpe and Jens Stegmaier, *VoxEU*, Jan 2021.

## **STUDENT ADVISING**

PhD Committee: Yan Lei (NUS, in progress), Anoulat Sinthavy (NUS, in progress), Verena Plümpe (IWH, in progress).

Undergraduate Capstone (Yale-NUS): 21/22 (in progress): Aryan Chhabra, Darren Chong De Ren, Walter Boo Keng Hua, Natalie Teo Hui Yi; 20/21: Ngoc-Quynh Nguyen (Econ Capstone Prize), Shubhalaxmi Sen, Sviatlana Yasiukova; 19/20: Samuel Jonas Guenther (Runner-up for Econ Capstone Prize), Kate Lim Ji Won, Khang Huynh Le Nguyen.

Master (NUS): 2021: Ho Wei Yuan Bradley.

Master (U. Jena): 2019: Alexandra Oparina, Vbronia Nabil Abdelshehid Saeed, Rastislav Stevcek.

Summer Research Program (Yale-NUS): 2020: Heather Cheng Hoi Yeuk, Jianyuan Lan, Tanya Sharma, Tianze Yu.

Independent Reading and Research Module (Yale-NUS): Divyam Vinay Agarwal.

## **RESEARCH VISITS**

Department of Economics, Johns Hopkins University, USA, Jan 2020.

Halle Institute for Economic Research (IWH), Germany, Dec 2019.

Institute for Employment Research (IAB), Germany, Oct 2018, Feb, May, Dec 2019.

SAIS, Johns Hopkins University, USA, Jul 2018.

Yokohama National University, Japan, Mar 2018.

University of International Business and Economics, China, Mar 2018.

## **DISCUSSANT**

Workshop on Innovation, Firm Growth, and Employment, UNICATT/Virtual (Apr 2021), PEDD, U Münster (Feb 2019), SCERI-NSD Conference, SSE (Aug 2018), SMYE 2018 (May 2018), SEA, DC (Nov 2016), EGI, U Bari (Sep 2016), EEA, DC (Feb 2016).

## **SEMINAR ORGANIZATION**

NUS-Econ-LKY-Policy-Yale-NUS Joint Trade Seminar (2021 – Present)

## **TEACHING EXPERIENCE**

Yale-NUS College: Intermediate Macroeconomics (2020 Spring/Fall, 2021 Spring/Fall), International Trade (2019 Fall, 2021 Spring), Economics of Globalization (2019 Fall, 2021 Fall).

University of Jena: Development Economics (2017 Winter, 2018 Summer); Seminar on International Economics (2018 Winter, 2019 Summer).

Johns Hopkins University: International Trade (2014 Summer), PhD Math Camp (2015 Summer, 2016 Summer).

Certificate, Summer Teaching Institute, Johns Hopkins University, 2015 Summer.

## **UNIVERSITY SERVICES**

Committee for Internal Selection of Yenching Scholars, Yale-NUS, 2020.

Search Committee (Economics), Yale-NUS, 2019.

## **HONORS, GRANTS, and AWARDS**

Humanities and Social Sciences Seed Fund, NUS, 2020–2022.

Start-up Grant, Yale-NUS College, 2019–2023.

Professor Joel Dean Undergraduate Teaching Award, JHU, 2014, 2017.

Eugenio and Patricia Castillo Award, JHU, 2013.

Department Fellowship, 2014–2017; Owen Fellowship, Department of Economics, JHU, 2011–2014.

## **REFERENCES**

Available upon request