OU LIU CURRICULUM VITAE

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PLACEMENT CO-CHAIRS PLACEMENT ADMINISTRATOR

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RESEARCH INTERESTS

Macroeconomics, Innovation, Firm Dynamics, Household Finance

EDUCATION

Ph.D. in Economics, Columbia University	2016 – 2022 (Expected)
M.A. in Economics, Columbia University	2015 – 2016
Ph.D. in Cell and Developmental Biology, Rutgers University	2009 – 2015
B.S. in Pharmaceutical Science, Peking University	2005 – 2009

REFERENCES

Matthieu Gomez	Martin Uribe	Harrison Hong
Assistant Professor I	Professor	John R. Eckel, Jr. Professor
	1 10105501	of Financial Economics
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JOB MARKET PAPER

Firm Dynamics and Innovation: Evidence from Decomposing Top Sales Share Growth

What do changes in top sales shares signal about changes in firm dynamics? I use an accounting decomposition to identify two sources of top sales share growth: (i) incumbent top firms grow bigger; (ii) new top firms replace old top firms. I then build an analytical framework to estimate a firm dynamics process in which firms grow in response to an own innovation shock and shrink at the impact of a creative destruction shock using the empirical decomposition terms of top share growth. I find that own innovation is the major force that drives top sales share growth. The decline in the top sales shares in the 1980s is associated with a higher aggregate productivity growth, while the rise in the top sales shares since the late 1990s implies a slightly lower productivity growth.

OTHER WORKING PAPERS

Employment during the COVID-19 Pandemic: Collapse and Early Recovery with Tam Mai, [Paper]

Abstract: We use monthly Current Population Survey data to document employment changes during the COVID-19 pandemic at the occupation, industry, and metropolitan statistical area (MSA) levels. Over March-April 2020, jobs losses are larger for occupations with higher physical proximity or lower work-from-home feasibility, especially for lower-paying occupations. Non-essential industries also see greater declines in employment. Such occupational and industrial susceptibility to COVID-19 contributes to the variation in employment changes across MSAs: Employment shrinks more for MSAs with larger pre-crisis fractions of workers employed in occupations with higher infection risk. Over April-June 2020, occupations and industries that are hit harder recoup more jobs, but the recovery is only partial. Moreover, the gains are concentrated in lower-paying occupations and a few industries. Taken together, these abrupt changes in employment following the COVID-19 outbreak are unprecedented and potentially have long-term implications for occupational inequality and regional disparity.

Income Inequality and Mortgage Credit Allocation [Paper]

Abstract: This paper studies how income inequality at the Metropolitan Statistical Area (MSA) level affect mortgage credit allocation along the income distribution of households within MSAs. I find that MSA-level income inequality has heterogeneous effect on household-level mortgage debt accumulation. Two measures of inequality, the ratio of 95th-to-80th percentile (p95/p80) and the ratio of 80th-to-50th percentile (p80/p50) of household income, exhibit significant impact. With respect to credit approval along the income distribution, high p95/p80 inequality works more in favor of low-income households while high p80/p50 inequality benefits high-income households more.

PUBLICATIONS (IN BIOMEDICAL SCIENCE, FROM PREVIOUS PHD STUDY)

- 1. Shi, A., Liu, O., Koenig, S., Banerjee, R., Chen, C. C. H., Eimer, S., Grant, B. D. (2012). RAB-10-GTPase–mediated regulation of endosomal phosphatidylinositol-4, 5-bisphosphate. *Proceedings of the National Academy of Sciences*, 109(35), E2306-E2315. [Paper]
- 2. Sun, L., Liu, O., Desai, J., Karbassi, F., Sylvain, M. A., Shi, A., Grant, B. D. (2012). CED-10/Rac1 regulates endocytic recycling through the RAB-5 GAP TBC-2. *PLoS genetics*, 8(7), e1002785. [Paper]
- **3. Liu, O.**, Grant, B. D. (2015). Basolateral endocytic recycling requires RAB-10 and AMPH-1 mediated recruitment of RAB-5 GAP TBC-2 to endosomes. *PLoS genetics*, 11(9), e1005514. **[Paper]**
- 4. Wang, P., Liu, H., Wang, Y., Liu, O., Zhang, J., Gleason, A., Grant, B. D. (2016). RAB-10 promotes EHBP-1 bridging of filamentous actin and tubular recycling endosomes. *PLoS genetics*, 12(6), e1006093. [Paper]
- 5. (*In Chinese*.) Li, X. T., Yuan, Y. L., Xia, Y. Y., Yu, B. Z., Zhang, T. J., **Liu, O.**, Zhan, S. Y. (2009). Genetic polymorphism of glutathione-S-transferase M1 and T1: a systematic review in Chinese population and a pilot study in smear-positive pulmonary tuberculosis cases of Jilin province. *Chinese Journal of Epidemiology*, 30(5):502-6.

TEACHING EXPERIENCE

TEACHING FELLOW

Columbia University

Finance and the Real Economy (Undergraduate) Spring 2019, Spring 2020

Instructor: Matthieu Gomez

Corporate Finance (Undergraduate) Fall 2018, Fall 2019, Fall 2020

Instructors: Olivier Darmouni and Ethan Namvar

Intermediate Macroeconomics (Undergraduate) Fall 2017, Spring 2018

Instructors: Irasema Alonso and Jón Steinsson

Rutgers University

Genetics (Undergraduate) Fall 2013, Spring 2014, Fall 2014, Spring 2015

INSTRUCTOR

Institute of Industrial Economics of Chinese Academy of Social Sciences

Macroeconomics (1st-year PhD level, equiv. 1.5 credit minicourse) Summer 2018

LAB MENTOR

Rutgers University

Mentored pre-med, master and PhD students during their lab rotations 2011-2015

FELLOWSHIPS

Dissertation Fellowship, 2021-2022, Columbia University

Dean's Fellowship, 2016 – 2021, Columbia University

Anne B. and James B. Leathem Fellowship, Summer 2011 – 2014, Rutgers University

Excellence Fellowship, 2009 – 2010, Rutgers University

PERSONAL INFORMATION

LANGUAGES:

Chinese (native) English (fluent) French (intermediate) German(basic)

- French: Diplôme de Français professionnel-Affaires B2 awarded by the Paris Chamber of Commerce

- German: Goethe-Zertifikat B1

PROGRAMMING: Python, Stata, Matlab

CITIZENSHIP: Chinese

Date of Birth: Oct. 24th, 1988

SPORT: player on Table Tennis women's team at Peking University (2005 – 2008) and

at Columbia University (2016 – 2017)