

Curriculum Vitae Rongzhu Ke

MAIN WORKING EXPERIENCE

2017- : Assistant Professor, Department of Economics, Hong Kong Baptist University

2009-2016: Assistant Professor, Department of Economics, the Chinese University of Hong Kong

FIELDS

Primary Fields: Applied Micro Theory, Applied Econometrics

Secondary Fields: Organizational Economics, Political Economy

EDUCATION

2004-2009: Ph.D. in Economics, MIT, Cambridge, MA, USA.

1998-2001: M.A in Economics, Zhejiang University, Zhejiang, China.

1994-1998: B.A. in Economics, Zhejiang University, Zhejiang, China.

TEACHING

ECON2011: Basic Microeconomics

ECON8006: Graduate Thesis Research

STOT4901: Guided Research for Senior Students

ECON5011: Advanced Microeconomic Theory

PUBLICATIONS

1. “[Managing careers in organizations](#)” (with Jin Li and Michael Powell), Forthcoming, *Journal of Labor Economics*. Jan. , 2018.
2. “[A general solution method for moral hazard problems](#)” (with Chris Ryan), accepted, *Theoretical Economics*.
3. “[Monotonicity of optimal contracts without the first-order approach](#)” (with Chris Ryan), accepted, *Operation Research*.

WORKING PAPERS

CONTRACT THEORY PAPERS

4. “Reducing the dimensionality of incentive compatibility constraints”
5. “Information-trigger contract” (with Chris Ryan)
6. “A fixed-point method for validating the first-order approach”
7. “Extreme bonus does not work: the existence of optimal deterministic contracts in pure moral hazard problems” (with Xinyi Xu)
8. “Auctioning social surplus: the best possible Bayesian mechanism with *ex post* budget balance”

9. “Infinite-dimensional duality and moral hazard: Characterization and continuity of optimal contracts” (with Chris Ryan).
10. “A penalty function approach to necessary optimality conditions for non-convex bi-level optimization” (with Chris Ryan).

APPLIED THEORY PAPERS

11. “Optimal wage commitment under career concern”
12. “[Rosca meets financial market](#)” (with Hanming Fang and Li-an Zhou), *NBER Working Paper 21683*.

ECONOMETRIC/EMPIRICAL PAPERS

13. “Trade reforms and wage dispersion: workforce composition or rent sharing” (with Yi Lu and Lianming Zhu).
14. “Social Networks and Meritocracy in Elite Recruitment: The Chinese Civil Service Examinations, 1400–1580” (with Enying Zheng, Yasheng Huang, and Wei Hong).
15. “Non-parametric identification of moral hazard problems: first order approach and statistical inference”.
16. “Peer Effect and Network Formation among Social Elites: Imperial China 1400-1580” (with Enying Zheng and Wei Hong).

RESEARCH IN PROGRESS

1. Log concavity validates the first order approach (with Kim Sau Chung)
2. Wage inequality, wage dispersion and intra-firm bargaining (with Yi Lu and Lianming Zhu).
3. “Non-monotonicity of Rosca bid: theory and evidence” (with Hanming Fang and Li-an Zhou).
4. A non-linear Lagrangian approach to address the issue of the duality gap: theory and Algorithm.
5. A dual equivalent representation for multi-level programming.
6. Existence and uniqueness of time-consistent Markov perfect equilibria (with Zheng Song).
7. Economic growth under moral hazard: theory and evidence.
8. Optimal tournament under moral hazard (with Jin Li).

9. Agency-problem and state capacity.

PRESENTATIONS

1. “A general solution method for moral hazard problems”, Conference on Mechanism Design, York University, June, 2017.
2. “Monotonicity of optimal contract without the first-order approach”, IOMS Working-shop, HKUST, June 2016.
3. “Non-parametric identification of moral hazard problems,” *Econometric Society China Meeting*, June 2014, Xiamen University, China.
4. “A general solution method to moral hazard problems,” *Econometric Society China Meeting*, June 2013, Peking University, China.
5. “A fixed-point method for solving the principal-agent problems: beyond the first-order approach,” *Society for Advanced Economic Theory Conference*, June 2011, Portugal.
6. “A fixed-point method for validating the first-order approach,” *Econometric Society World Congress*, August 2010, Shanghai, China.
7. “Identifying contract optimality non-parametrically with moral hazard: first order approach and statistical inference,” *Econometric Society North America Summer Meeting*, June 2009, Boston, US.
8. “Identifying contract optimality without knowing functions: moral hazard and statistical inference I (parametric identification),” *Econometric Society North America Summer Meeting*, June 2008, Pittsburgh, US.

VISITING EXPERIENCE: Yale Law School (2003), Lingnan University (2016), Peking University (2017).

REFeree ACTIVITIES

RGC (Hong Kong), Social Sciences and Humanities Research Council of Canada Econometrica, Review of Economic Studies, International Economic Review Journal of Public Economic Theory, The BE Journal of Theoretical Economics German Economic Review

GRANTS

1. CUHK Direct Grant: “Optimal Mechanism Design for Rotating Savings and Credit Associations,” PI, 2009-2011.
2. RGC Grant: “Mutual Insurance with Private Known Shock: Optimal Mechanism Design for Rotating Savings and Credit Associations,” PI, 2011-2013, HKD 480,000.
3. CUHK Grant: “Focused Innovations Scheme (formerly known as Focused Investments Scheme) - Scheme B: Gene-Environment Interactions and the Dynamic Life-cycle Human Capital Formation: A Collection and Study of Longitudinal Child Twin Data,” participant, 2011-2014.
4. Yale University: “Gene-Environment Interactions and the Dynamic Life-cycle Human Capital Formation: A Collection and Study of Longitudinal Child Twin Data,” participant, 2011-2013.

ADVISEES

2015/2016:

1. XU Xinyi [*Ph.D, Supervisor, now Assistant Professor at Zhongshang University*]
2. LIANG Yousha [*Ph.D, Internal examiner, now Assistant Professor at Zhejiang University*]
3. ZHANG Yu [*Ph.D, Internal examiner*]
4. CHEUNG Hung Yui [*M.Phil., Internal examiner, now Ph.D student at Univeristy of Maryland, College Part*]

2014/2015:

1. CHAN Tak Lun Lester [*M.Phil., Internal examiner*], now Ph.D candidate at *Boston University*
2. WANG Yilin [*M.Phil., Internal examiner*], now Ph.D candidate at *UC Los Angeles*

2013/2014:

1. ZHAO Hao [*M.Phil., Supervisor*], now Ph.D candidate at *Cal. Inst. of Technology*
2. KWAN Chun Yin [*M.Phil., Internal examiner*]
3. YANG Lu [*M.Phil., Internal examiner*]
4. ZHANG Leifu [*M.Phil., Internal examiner*], now *Ph.D candidate at University of Washington at St. Louis*

2012/2013:

1. XU Jiazhen [*M.Phil., Internal examiner*]
2. ZHANG Xiaoyu [*M.Phil., Internal examiner*], now Ph.D candidate at *Chinese University of Hong Kong*
3. DING Haoyuan [*Ph.D., Committee Chairman*], now Assistant Professor at *Shanghai University of Finance and Economics*

2011/2012:

1. AU Siu Long [*M.Phil., Internal examiner*]
2. QIAN Jinghui [*M.Phil., Thesis Committee Chairman*], now *Ph. D candidate at University of Toronto*
3. TAM Yin Chi [*M.Phil., Internal examiner*], now *Ph.D candidate at University of Wisconsin-Madison*
4. YUEN Shuk In Jacqueline [*MPhil, Thesis Committee Chairman*]
5. LUO Gongshu [*Ph.D, Internal examiner*]

2010/2011:

1. WU Shujun [*M.Phil., Thesis Committee Chairman*]
2. ZHANG Xuechao [*M.Phil., Internal examiner*]

2009/2010:

1. CHAN Kin Cheong [*M.Phil., Internal examiner*]
2. XIAO Rui [*M.Phil., Internal examiner*]