

*For favour of posting*

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE  
THE UNIVERSITY OF HONG KONG

Seminar for Confirmation of Candidature

**Mr. ZHANG Yiying**

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The University of Hong Kong*

will give a talk

entitled

**RISK-ADJUSTED BOWLEY REINSURANCE UNDER  
DISTORTED PROBABILITIES**

Abstract

In the seminal work of Chan and Gerber (1985, The reinsurer's monopoly and the Bowley solution, *ASTIN Bulletin*, **15**, 141-148), the first game theoretical approach between the reinsurer and insurer was adopted; in particular, the optimal pricing density for the reinsurer and optimal ceded loss for the insurer were determined so that their corresponding expected utilities are maximized. Over decades, this Bowley solution concept of equilibrium reinsurance strategy has not been revisited in the modern risk management framework. In this study, we attempt to fill this gap by extending their work to the setting of general premium principle for the reinsurer and distortion risk measure for the insurer.

on

**Tuesday, February 21, 2017**

**2:30 p.m. – 3:30 p.m.**

at

**Room 301, Run Run Shaw Building**

All interested are welcome