

# Fenghui Yu

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		<b>Tel.</b>	+44 7879 005096
		<b>Website</b>	<a href="http://fenghuiyu.github.io">http://fenghuiyu.github.io</a>
		<b>Birth Date</b>	December 20, 1992

## Positions

<b>Jun 2019-Present</b>	<i>Postdoctoral Researcher</i> - RiskLab and Department of Mathematics, ETH, Zurich, Switzerland
<b>Jan 2019-May 2019</b>	<i>Postdoctoral Fellow</i> - Department of Mathematics, The University of Hong Kong, Hong Kong

## Education

<b>Sept 2014-Dec 2018</b>	Ph.D., Mathematics - The University of Hong Kong, Hong Kong <i>Research Field: Mathematical and Computational Finance</i> <i>Supervisor: Prof. Wai-Ki CHING</i> <i>Thesis: On Pricing, Hedging and Trading in Financial Management</i>
<b>Sept 2010-Jul 2014</b>	B.S. Mathematics; B.E. Finance (Double Degree) - Jilin University, China <i>Major: Computational Mathematics; Minor: Finance and Financial Management</i> <i>Performance: Outstanding Class (top 5%)</i>

## Research Interests

- Quantitative Methods in Risk Management, Finance and Actuarial Science
- Applied Probability, Stochastic Modeling and Optimal Stochastic Control
- Machine Learning, Data-driven Innovation and their Applications

## Honors and Awards

<b>2018</b>	Scientific Research Network (WOG) Grant - <i>Research Foundation Flanders (FWO), Belgium</i>
<b>2016, 2018</b>	Conference Grant for Research Postgraduate Students - <i>The University of Hong Kong, Hong Kong</i>
<b>2016</b>	SIAM Student Travel Award - <i>SIAM, USA</i>
<b>2016</b>	Doris Chen Postgraduate Travel Grant - <i>The University of Hong Kong, Hong Kong</i>
<b>2016</b>	International Student Travel Award - <i>PIMS, Canada</i>
<b>2014-2018</b>	HKU Foundation Postgraduate Fellowship - <i>The University of Hong Kong, Hong Kong</i>
<b>2014-2018</b>	Postgraduate Scholarship - <i>The University of Hong Kong, Hong Kong</i>
<b>2012-2014</b>	First Rank Scholarship - <i>Jilin University, China</i>
<b>2011-2014</b>	Outstanding Undergraduate - <i>Jilin University, China</i>
<b>2011</b>	Second Rank Scholarship - <i>Jilin University, China</i>

## Papers

- **Feng-Hui Yu**, Wai-Ki Ching, Jia-Wen Gu and Tak-Kuen Siu. *Interacting Default Intensity with Hidden Markov Process*. Quantitative Finance, 7(5), 781-794, 2017.

- **Feng-Hui Yu**, Jie-Jun Lu, Jia-Wen Gu and Wai-Ki Ching. *Modeling Credit Risk with Hidden Markov Default Intensity*. Computational Economics, 54(3), 1213-1229, 2019.
- Dong-Mei Zhu, Jia-Wen Gu, **Feng-Hui Yu**, Wai-Ki Ching and Tak-Kuen Siu. *How correlation risk in basket credit derivatives might be priced and managed?* IMA Journal of Management Mathematics, 2020.
- Dong-Mei Zhu, Jia-Wen Gu, **Feng-Hui Yu**, Tak-Kuen Siu and Wai-Ki Ching. *Optimal Pairs Trading with Dynamic Mean-Variance Objective*. Revision to Mathematical Method of Operations Research, 2020.
- Tak-Kuen Siu, **Feng-Hui Yu**, Qing-Qing Yang, Jia-Wen Gu and Wai-Ki Ching. *Pricing Participating Policies Under Hidden Markov Models via Neural Networks*. Preprint, 2019.
- **Feng-Hui Yu**, Wai-Ki Ching, Jia-Wen Gu and Chu-Fang Wu. *Optimal Mean-Variance Pairs Trading Strategies*. Preprint, 2019.
- **Feng-Hui Yu**, Wai-Ki Ching, Tak-Kuen Siu. *Multi-Period Optimal Mean-reverting Spread Trading Strategies with Hidden Markovian Regime Switching*. In preparation.

## Conference/Workshop/Research Experience

<b>Dec 2019</b>	<b>Invited talk</b> , Youth Probability and Statistic Forum - Beijing, China
<b>Dec 2019</b>	<b>Invited talk</b> , Post/Doctoral Seminar in Mathematical Finance - ETH Zurich, Switzerland
<b>Feb 2018</b>	<b>Contributed poster</b> , Actuarial and Financial Mathematics Conference: Interplay between Finance and Insurance - Brussels, Belgium
<b>Feb 2018</b>	<b>Contributed talk</b> , Workshop on Computational Science and Optimization - Hong Kong
<b>Nov 2016</b>	<b>Contributed talk</b> , SIAM Conference on Financial Mathematics and Engineering - Austin, Texas, USA
<b>Jul 2016</b>	<b>Contributed talk</b> , The Sixth International IMS-FIPS Workshop - Edmonton, Canada
<b>Jun 2016</b>	<b>Contributed talk</b> , The 11th East Asia SIAM Conference - Macao
<b>May 2016</b>	<b>Participant</b> , International Conference on Applied Mathematics - Hong Kong
<b>Feb 2016</b>	<b>Contributed talk</b> , The Fourth Asian Quantitative Finance Conference - Osaka, Japan
<b>Aug 2015</b>	<b>Academic Visit</b> , Department of Mathematical Sciences, University of Copenhagen - Copenhagen, Denmark
<b>2013-2014</b>	<b>Student Researcher</b> , College Base Program - Jilin University, China
<b>2012-2013</b>	<b>Group Leader</b> , College Student Innovation Research Training Program - Jilin University, China
<b>Jan-Feb 2013</b>	<b>Intern</b> , Agricultural Bank of China, Changde Branch - Changde, China
<b>Aug 2012</b>	<b>Analyst</b> , Mathematics Contest in Modeling - China

## Other Scientific Activities

<b>Jun-Jul 2016</b>	PIMS Summer School in Mathematical Finance - University of Alberta, Canada
<b>Jul 2014</b>	International Summer School on Scientific Computing - Chinese Academy of Sciences, China
<b>Jul 2014</b>	Summer School on Applied Mathematics - Peking University, China
<b>Jul 2013</b>	Summer Program for Advanced Interdisciplinary Studies - Peking University, China
<b>Jul 2013</b>	Annual Conference held by Academy for Advanced Interdisciplinary Studies - Peking University, China
<b>Jul 2013</b>	Summer Study Camp for Mathematics - Fudan University, China

## Teaching Experience

(All of the courses are given in English)

<b>Sep-Nov 2017</b>	<b>Teaching Assistant</b> , Department of Mathematics, - The University of Hong Kong, Hong Kong <i>Course: Discrete Mathematics</i>
<b>Sep-Nov 2017</b> <b>Sep-Nov 2016</b> <b>Sep-Nov 2015</b>	<b>Teaching Assistant</b> , Department of Mathematics, - The University of Hong Kong, Hong Kong <i>Course: University Mathematics I</i>
<b>Jan-May 2015</b>	<b>Teaching Assistant</b> , Department of Mathematics, - The University of Hong Kong, Hong Kong <i>Course: Computational Methods and Differential Equations with Applications</i>

## Additional Information

<b>Jan 2015</b>	Certificate of Teaching and Learning in Higher Education - <i>The University of Hong Kong, Hong Kong</i>
<b>Programming</b>	MATLAB, Python, Pandas