

## Yu-Jui Huang

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CONTACT INFORMATION	Department of Applied Mathematics University of Colorado Boulder, CO 80309, USA	<i>Phone:</i> +1 734-272-8869 <i>E-mail:</i> <a href="mailto:yujui.huang@colorado.edu">yujui.huang@colorado.edu</a> <i>Website:</i> <a href="http://www.yujui-huang.com">www.yujui-huang.com</a>
RESEARCH AREAS	Mathematical finance, stochastic control, optimal stopping, applied probability.	
EMPLOYMENT	<b>University of Colorado</b> , Boulder, USA <i>Assistant Professor</i> , Department of Applied Mathematics	<b>Aug. 2016 onward</b>
	<b>Dublin City University</b> , Dublin, Ireland <i>Lecturer in Financial Math.</i> , School of Mathematical Sciences	<b>Sep. 2013-Aug. 2016</b>
EDUCATION	<b>University of Michigan</b> , Ann Arbor, USA (2008-2013) <i>Ph.D., Applied and Interdisciplinary Mathematics</i>	<b>May 2013</b>
	<ul style="list-style-type: none"><li>• <b>Advisor:</b> Prof. Erhan Bayraktar</li><li>• <b>Dissertation:</b> "Topics in Stochastic Control with Applications to Finance"</li></ul>	
	<b>National Taiwan University</b> , Taipei, Taiwan (2002-2007) <i>B.S., Mathematics</i> <i>B.B.A., Finance</i>	<b>June 2007</b> <b>June 2007</b>
GRANTS	<b>National Science Foundation, Division of Mathematical Sciences</b> <i>Stochastic Games for Intergenerational Equity in Mathematical Finance</i> <a href="#">DMS-1715439</a> , PI, \$186,166	2017-2020
AWARDS	<b>2015 Bruti-Liberati Fellowship</b> Quantitative Finance Research Centre, University of Technology Sydney	
WORKING PAPERS	<ul style="list-style-type: none"><li>• Martingale Optimal Transport for General Measurable Claims (with Arash Fahim), first draft in preparation.</li></ul>	
SUBMITTED PAPERS	<ul style="list-style-type: none"><li>• Yu-Jui Huang, Shih-Chun Lin, and Yu-Chih Huang (2018) <a href="#">On Multi-Hypothesis Byzantine Sequential Change Detection</a></li><li>• Yu-Jui Huang and Zhou Zhou (2017) <a href="#">Optimal Equilibria for Time-Inconsistent Stopping Problems in Continuous Time</a></li><li>• Yu-Jui Huang, Adrien Nguyen-Huu, and Xunyu Zhou (2017) <a href="#">Stopping Behaviors of Naïve and Non-Committed Sophisticated Agents when They Distort Probability</a></li><li>• Yu-Jui Huang and Zhou Zhou (2017) <a href="#">Optimal Equilibrium for Time-Inconsistent Stopping Problems – the Discrete-Time Case</a></li><li>• Paolo Guasoni and Yu-Jui Huang (2016) <a href="#">Healthcare and Consumption with Aging</a></li></ul>	
PUBLICATIONS	<ul style="list-style-type: none"><li>• Yu-Jui Huang and Adrien Nguyen-Huu (2017) <a href="#">Time-consistent Stopping under Decreasing Impatience</a> <b>Finance and Stochastics</b>, November 2017.</li></ul>	



- University of Colorado at Boulder **December 1, 2015**
- *Nomura Seminar in Mathematical Finance*  
University of Oxford **June 4, 2015**
- *ORFE Colloquium*  
Princeton University **January 30, 2015**
- *Mathematics Colloquium*  
Florida State University **January 16, 2015**
- *Financial Mathematics Seminar*  
Florida State University **January 15, 2015**
- *Seminar on Probability and Statistics with Applications*  
National Chiao Tung University, Hsinchu, Taiwan **January 5, 2015**
- *One-Day Course in Financial Mathematics*  
National Tsing Hua University, Hsinchu, Taiwan **December 17, 2014**
- *Mathematical Finance Seminar*  
The Hebrew University of Jerusalem **May 26, 2014**
- *Joint Financial Mathematics and Risk Stochastics Seminar*  
London School of Economics **March 3, 2014**
- *Mathematics Colloquium*  
Dublin City University, Dublin, Ireland **October 24, 2013**
- *Probability Seminar*  
Academia Sinica, Taipei, Taiwan **June 27, 2013**
- *Mathematical Finance Seminar*  
University of Texas at Austin **April 12, 2013**
- *AMS Sectional Meeting (Special Session on Financial Mathematics)*  
Boston College, Chestnut Hill **April 7, 2013**
- *Probability and Statistics Seminar*  
Wayne State University, Detroit **March 20, 2013**
- *SIAM Conference on Financial Mathematics and Engineering*  
Minneapolis **July 9 & 10, 2012**
- *Financial and Actuarial Mathematics Seminar*  
University of Michigan **September 29, 2011**
- *7<sup>th</sup> International Congress on Industrial and Applied Mathematics (ICIAM)*  
Vancouver **July 21, 2011**
- CONTRIBUTED PRESENTATIONS (2010-2016)
- *9<sup>th</sup> World Congress of the Bachelier Finance Society*  
New York, USA **July 19, 2016**
- *8<sup>th</sup> World Congress of the Bachelier Finance Society*  
Brussels, Belgium **June 5, 2014**
- *AMS Sectional Meeting (Special Session on PDE and stochastic Analysis)*  
Temple University, Philadelphia **October 13, 2013**
- *Probability, Control and Finance, a conference in honor of Ioannis Karatzas*  
Columbia University **June 5, 2012**
- *Workshop on Stochastic Analysis in Finance and Insurance*  
University of Michigan **May 18, 2011**
- *Mathematical Finance and Partial Differential Equations Conference*  
Rutgers University **December 10, 2010**
- *6<sup>th</sup> World Congress of the Bachelier Finance Society*  
Toronto, Canada **June 23, 2010**

## STUDENTS

### University of Colorado

#### *Ph.D. students:*

- Joshua Aurand (Department of Applied Mathematics)
- Saeed Khalili (Department of Mathematics)
- Zhenhua Wang (Department of Mathematics)

#### *Undergraduate research students:*

- Trevor McCord on the project “Merton’s Problem with Human Capital Investment”  
(Discovery Learning Apprenticeship Program) **August 2016-April 2017**

### Dublin City University

#### *Internship students:*

Monitored the progress of internship students in financial firms. Duties include communications/meetings with students and their supervisors, and on-site visits to the companies.

- Michael Flynn, Sean McCarthy, and Thomas Quinn  
@ Office of the Comptroller and Auditor General, Ireland **February-September 2016**
- Adelle Heskin  
@ AIG Asset Management **February-September 2015**
- Damian Murphy and Eoin Phelan  
@ SCOR Global Life Reinsurance Ireland **February-September 2015**
- Jenifer Black  
@ Hannover Re (Ireland) Limited **February-September 2014**

## SERVICES

### University of Colorado

#### *Department of Applied Mathematics:*

- Serving in the Undergraduate Committee **August 2016-May 2017**
- Serving in the Probability/Statistics Preliminary Exam Committee **January 2017**
- Serving in the Applied Analysis Preliminary Exam Committee **August 2017**

### Academia

#### *Organizing conferences/symposiums:*

- Organize (with Adrien Nguyen-Huu) the minisymposium “Stochastic Control and Stopping under Time Inconsistency” in the SIAM Conference on Financial Mathematics and Engineering (Austin, Texas on November 17-19, 2016).
- Organize (with Arash Fahim) the minisymposium “Robust Hedging and Pricing under Model Uncertainty” in the SIAM Conference on Financial Mathematics and Engineering (Chicago, November 13-15, 2014).

#### *Reviewing journal articles for:*

- Annals of Applied Probability.
- Finance and Stochastics.
- Mathematics of Operations Research.
- Nonlinear Analysis: Hybrid Systems.
- SIAM Journal on Control and Optimization.
- SIAM Journal on Financial Mathematics.

## TEACHING

### University of Colorado

- Stochastic Analysis for Finance (Fall 2017)

- *Operations Research* (Spring 2017)
- *Integral Calculus* (Fall 2016, Spring 2017)

#### **Dublin City University**

- *Probability and Finance I* (Fall 2015)  
A measure-theoretic probability course for graduate students, with common financial models introduced as applications.
- *Probability I* (Spring 2016, Spring 2015, Spring 2014)  
An introductory probability course for undergraduate students.
- *Data Analysis and Statistics* (Fall 2014)  
A statistics course for biological engineering students, with a focus on analyzing biological and medical data.
- *Statistics I* (Fall 2013)  
An introductory statistics course for undergraduate students.

#### **University of Michigan**

- *Integral Calculus* (Fall 2011, Winter 2010).
- *Differential Calculus* (Fall 2009, Winter 2009).
- *Pre-calculus* (Fall 2008).

LAST UPDATED

January 28, 2018