Last update: April 2022

CAN GAO
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Academic Appointments

Advanced Researcher, Leibniz Institute for Financial Research SAFE, Frankfurt, 2021-
- Visiting fellow, London School of Economics, 2022

Assistant Professor (by courtesy), Faculty of Economics and Business, Goethe University, 2021-

Prior Industrial Appointments

Quant Consultant, Glen Point Capital, London, 2020
Quant Researcher, Bank of America Merrill Lynch, London, 2018-20
- Equity Derivative Research, Equity Central Risk Book

Doctoral Internship, Capital Market Division, Bank of England, 2017

Education

Ph.D. in Finance, Imperial College London, 2022
M.Res. in Business, Imperial College London, 2016
M.Sc. in Theoretical Physics, Imperial College London, 2015
Ph.D. in Mathematics, École Polytechnique Fédérale de Lausanne, 2014
B.Sc. in Pure and Applied Mathematics, China Agriculture University, 2011

Publications

"Volatility, Valuation Ratios and Bubbles: An Empirical Measure of Market Sentiment", with Ian Martin, *Journal of Finance*, 76:6:3211–3254, 2021

Working Papers

"Expected Currency Returns", with Pasquale Della Corte and Alexandre Jeanneret
"A Systemic Foreign Exchange Risk Index", with Paul Schneider
"Heterogeneous Beliefs, Path Dependent Sentiment and Volatility Smile"
"Currency Risk in the Long Run", Pasquale Della Corte, Daniel P.A. Preve and Giorgio Valente

Works in Progress

"Source of Currency Strength: Trade and Financial Networks"
"The Buffett Indicator", with Dmitry Kuvshinov and Kaspar Zimmermann
"Government Debt, Tax, Spending and Bond Returns", with John Campbell and Ian Martin

Funds, Fellowships, Etc

Co-investigator, Research Funding, Canadian Derivative Institute, 2021-22
Ph.D. Scholarship, Imperial College Business School, 2015-21
CUSO Doctoral Training Fund, Swiss Doctoral Program in Mathematics, 2011-14
Doctoral Fellowship, École Polytechnique Fédérale de Lausanne, 2011-14
Scientific Innovation Award, China Agriculture University, 2010
Academic Excellence Awards, China Agriculture University, 2008-10

Teaching Experience

Leibniz Institute of Financial Research SAFE, 2021
- Systemic Risk: Early Warnings & Systemically Important Financial Institutions (Ph.D.)

Imperial College Business School, 2015-20
- Derivatives (Master), Investment and Portfolio Management (Master), Mathematics for Finance (Master), Asset Pricing (Ph.D.)

University of Lausanne, 2013-14
- General College Mathematics I and II

École Polytechnique Fédérale de Lausanne, 2011-13
- Analysis I-III, Linear Algebra

Publications in Mathematics

"On Global Regularity for Systems of Nonlinear Wave Equations with the Null-condition", with Aparajita Dasgupta and Joachim Krieger, *Dynamics of PDE*, 12(2015): 115-125.
"Optimal Polynomial Blow Up Range for Critical Wave Maps", with Joachim Krieger, *Communications on Pure and Applied Analysis*, 14(2015): 1705-1741.
"Generalized Dressing Method for the Extended 2-D Toda Lattice Hierarchy and Its Reductions", with Xiaojun Liu, *Science China: Mathematics*, 54(2011): 365-380.