RODRIGO HIZMERI

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EDUCATION

Lancaster University, Department of Economics, Lancaster, UK
Ph.D. in Financial Econometrics 2017 – 2021 (Expected)
Affiliations: **Centre for Financial Econometrics, Asset Markets and Macroeconomic Policy & GOLCER**

Lancaster University, Department of Economics, Finance, and Maths & Stats, Lancaster, UK
M.Sc. in Quantitative Finance 2014 – 2015

Neoma Business School, Department of Finance, Rouen, France
Master Grandes Ecole (Major: Financial Markets) 2013 – 2014

University of California Irvine, Irvine, CA, USA
Exchange Student (Economics and Statistics) Jan – Apr 2012

AREAS OF SPECIALIZATION

Financial Econometrics, Asset Price Discontinuities, Market Microstructure, Computational Statistics and Econometrics

ACADEMIC APPOINTMENTS

Lancaster University, Department of Economics, Lancaster, UK
Associate Lecturer 2017 – Present
Andres Bello, School of Business Engineering, Concepcion, Chile
Teaching Assistant 2011 – 2013

WORK IN PROGRESS

1. **"The Contribution of Jump Signs and Activity to Forecasting Stock Return Volatility"**. (Joint work with Marwan Izzeldin, Anthony Murphy and Mike G. Tsionas). *Submitted*

2. **"Forecasting the Realized Variance in the Presence of Intraday Periodicity"**. (Joint work with Ana-Maria H. Dumitru, and Marwan Izzeldin). *Submitted (R&R)*

3. **"A Generalized Heterogeneous Autoregressive Model using the Market Index"**. (Joint work with Marwan Izzeldin, Ingmar Nolte and Vasilis Pappas). *Submitted*

4. **"A Simple Model Correction for Modeling and Forecasting (Un)Reliable Volatility "**. (Joint work with Marwan Izzeldin and Mike Tsionas). *Submitted*

5. **“Evaluating the Underlying Components of High Frequency Financial Data: Finite Sample Performance and Microstructure Noise.”**. (Joint work with Marwan Izzeldin). *Submitted*

6. **“Which Trades Matter and When: Evidence from High Frequency Data”**. (Joint work with Ana-Maria H. Dumitru, Marwan Izzeldin and Peiran Shi)

7. **“The Role of (Co)Jumps on Return and Volatility: A Review”.** (Joint with Marwan Izzeldin).

REFEREEING

Journal of Financial Stability, Quantitative Finance, Economic Modelling.

TEACHING EXPERIENCE

Associate Lecturer, Department of Economics, Lancaster University

Academic year: 2020–2021

- **ECON 403**, Applied Econometrics (Postgraduate)
- **ECON 211**, Mathematical Economics (Undergraduate – 2nd year)
- **ECON 212**, Introduction to Econometrics (Undergraduate – 2nd year)

Academic year: 2019–2020

- **ECON 514**, Financial Economics (Postgraduate)
- **ECON 413**, Market Risk Forecasting and Control (Postgraduate).
- **ECON 211**, Mathematical Economics (Undergraduate – 2nd year) – Evaluation: 4.5/5.

Academic year: 2018–2019

- **ECON 413**, Market Risk Forecasting and Control (Postgraduate).
- **ECON 211**, Mathematical Economics (Undergraduate – 2nd year) – Evaluation: 4.4/5.
- **ECON 103**, Quantitative Methods for Economics (Undergraduate – 1st year)

Academic year: 2017–2018

- **ECON 413**, Market Risk Forecasting and Control (Postgraduate).
- **ECON 103**, Quantitative Methods for Economics (Undergraduate – 1st year) – Evaluation: 4.38/5.

Teaching Assistant, School of Business Engineering, Andres Bello University

FMM 129, Calculus II	March – June 2011
CEA 286, Financial Markets	Aug – Dec 2012
CEA 274, Project Evaluation	March – June 2013

CONSULTING ENGAGEMENTS / EXECUTIVE EDUCATION

Topic: High-frequency Financial Econometrics

Organized by: **GOLCER**
Location: **Online.**
May 27 – 28, 2020

Subject: **4^{th} Course in High-Frequency Financial Econometrics using Matlab – 2 Day course**
Main Topics: Data Cleaning and Aggregation; Main Stylized Facts of Returns and Volatility; Estimation of Realized Measures; Estimation of Jump Test Statistics; Forecasting Realized Volatility; Value at Risk Forecasting and Estimation; Realized Betas: Modeling and Forecasting; Market Microstructure; Monte Carlo Simulation and Stochastic Volatility Models.

Organized by: **GOLCER**
Location: **London.**
May 13 – 14, 2019

Subject: **3^{rd} Course in High-Frequency Financial Econometrics using Matlab – 2 Day course**
Main Topics: Data Cleaning and Aggregation; Main Stylized Facts of Returns and Volatility; Estimation of Realized Measures; Estimation of Jump Test Statistics; Forecasting Realized Volatility; Value at Risk Forecasting and Estimation; Realized Betas: Modeling and Forecasting; Market Microstructure; Monte Carlo Simulation and Stochastic Volatility Models.
(Evaluation: 4.5/5.0)

Organized by: **GOLCER**
Location: **London**
Oct 9–10, 2018

Subject: **2^{nd} Course in High-Frequency Financial Econometrics using Matlab – 2 Day course**
Main Topics: Data Cleaning and Aggregation; Main Stylized Facts of Returns and Volatility; Estimation of Realized Measures; Estimation of Jump Test Statistics; Forecasting Realized Volatility; Value at Risk Forecasting and Estimation; Realized Betas: Modeling and Forecasting; Market Microstructure; Monte Carlo Simulation and Stochastic Volatility Models.
(Evaluation: 4.5/5.0)

Organized by: **GOLCER**
Location: **Lancaster University.**
April 25 – 26, 2018

Subject: **1^{st} Course in High-Frequency Financial Econometrics using Matlab – 2-Day Course**
Main Topics: Data Cleaning and Aggregation; Main Stylized Facts of Returns and Volatility; Estimation of Realized Measures; Estimation of Jump Test Statistics; Forecasting Realized Volatility; Value at Risk Forecasting and Estimation; Monte Carlo Simulation and Stochastic Volatility Models.
(Evaluation: 5.0/5.0)

Topic: Quantitative Methods and Econometrics

Organized by: **GOLCER and NBET Plc.**
Location: **Lancaster University, U.K.**
Sept 9 – 20, 2019

Subject: **Mathematics and Statistics**
Main Topics: Differential Calculus; Optimization; Matrix Algebra; Probability Theory; Probability Distribution; Statistical Inference.
Secondary Topic: Introduction to R.
(Evaluation: 4.5/5.0)

Organized by: **GOLCER and NBET Plc.**
Location: **Lancaster University, U.K.**
Sept 9 – 20, 2019

Subject: **Time Series Econometrics using R**
Main Topics: Lag and Difference Operator; Stationarity and Non-stationarity; Autocorrelation Function; ARMA model; ARIMA model; Estimation, Fitting and Model Selection; HARCH models.
(Evaluation: 4.4/5.0)

Organized by: **GOLCER and NBET Plc.**
Location: **Abuja, Nigeria.**
Sept 1 – 7, 2018

Subject: **Quantitative Methods for Economics and Econometrics**
Main Topics: Differential Calculus; Optimization; Matrix Algebra; Probability Theory; Probability Distribution; Statistical Inference; Least Squares; ARMA Models.
Secondary Topic: Introduction to R.
(Evaluation: 4.7/5.0)

Organized by: **GOLCER and NBET Plc.**
Location: **Lancaster University, U.K.**
July 15 – August 4, 2018

Subject: **Quantitative Methods**
Main Topics: Differential Calculus; Optimization; Matrix Algebra; Probability Theory; Probability Distribution; Statistical Inference.
(Evaluation: 4.3/5.0)

Topic: Typesetting using LaTeX

Organized by: **GOLCER**
Location: **Lancaster University, U.K.**
Sept 18 – 19, 2019

Subject: **Introduction to LaTeX– Group 3**
Main Topics: Basic introduction to AMS-LaTeX, Beamer presentation and LaTeXclasses.

Organized by: **GOLCER**
Location: **Lancaster University, U.K.**
August 22 – 23, 2019

Subject: **Introduction to LaTeX– Group 2**
Main Topics: Basic introduction to AMS-LaTeX, Beamer presentation and LaTeXclasses.

Organized by: **GOLCER**
Location: **Lancaster University, U.K.**
August 3 – 4, 2018

Subject: **Introduction to LaTeX– Group 1**
Main Topics: Basic introduction to AMS-LaTeX, Beamer presentation and LaTeXclasses.

GRANTS AND AWARDS

ESRC Ph.D. Scholarship, AQM Scheme.	2017 – 2020
LUMS Conference Grants.	2018 – 2019
Research Training Support Grant, ESRC.	2017, 2018, 2019
Department of Economic Conference Grants.	2017, 2018
LUMS M.Sc. Scholarship.	2014 – 2015
Neoma BS Full Tuition Scholarship.	2013 – 2014

CONFERENCE PRESENTATIONS

- 2nd Frontiers of Factor Investing Conference, Lancaster University, U.K., Sept., 2020, (scheduled)
- Joint CMAF–EMP Research Workshop, Lancaster University, U.K., March, 2020.
- 13th International Conference on Computational and Financial Econometrics, London, U.K., Dec., 2019.
- 34th Annual Congress of the European Economic Association. Manchester, U.k., August, 2019.
- 72nd European Meeting of the Econometric Society. Manchester, U.K., August, 2019.
- Africa Meeting of the Econometric Society. Rabat, Morocco, July, 2019. (schedule)
- Konstanz-Lancaster-Manchester-Warwick Joint Workshop on Quantitative Finance and Econometrics. Manchester University, July, 2019.
- 6th Annual Conference of the International Association for Applied Econometrics. Nicosia, Cyprus, June, 2019.
- Asia Meeting of the Econometric Society, Xiamen University. Xiamen, china, June, 2019.
- Infiniti Conference 2019. Glasgow, June, 2019.
- 2nd International Conference on Quantitative Finance and Financial Econometrics. Marseille, France, June, 2019.
- NWSSDTP Economics Conference, Lancaster University, May – 2019.
- Economic Seminar Series Presentation at the Granger Centre for Time Series Econometrics, University of Nottinghma, May – 2019.
- 12th International Conference on Computational and Financial Econometrics. Pisa, Italy, Dec – 2018.
- 2nd LaWa (Lancaster-Warwick) Workshop on Financial Econometrics and Asset Pricing, Warwick University, July – 2018.
- 1st international conference on "Quantitative Finance and Financial Econometrics", sponsored by SoFiE, Aix-Marseille School of Economics, June – 2018
- NWSSDTP Economics Conference, University of Liverpool, May – 2018

- Frontier of Factor Investing Conference, Lancaster University Management School, April – 2018
- 7th Econometric Workshop at Liverpool University, Liverpool, March – 2018
- 11th International Conference on Computational and Financial Econometrics, London, December – 2017
- 9th Annual Volatility Institute Conference, New York University, New York, USA, April – 2017.
- 8th Annual Volatility Institute Conference, New York University, New York, USA, April – 2016.

CONFERENCE DISCUSSIONS

- **"Marginal Effect based Inference in the Deep Learning Framework"**. Konstanz-Lancaster-Manchester-Warwick Joint Workshop on Quantitative Finance and Econometrics. Manchester University, July, 2019.
- **"Forecasting Market Index Volatility Using Ross-Recovered Distributions"**. Infiniti Conference 2019. Glasgow, June, 2019.
- **"Order Choice in a Limit Order Book with Dispersed Information: Evidence from an Experimental Asset Market with Partially Informed Traders"**. Infiniti Conference 2019. Glasgow, June, 2019.
- **"Asymptotic Theory for Renewal Based High-Frequency Volatility Estimation"**. Lancaster-Warwick (La-Wa) Workshop on Financial Econometrics and Asset Pricing. Warwick University, July, 2018.

SUMMER SCHOOLS

- Quantitative Finance and Financial Econometrics, Aix-Marseille School of Economics, Marseille, May 28 – June, 2018.
  - *Forecasting Risk with Intraday Data and Forecasting Comparison* (Speakers: **Sebastien Laurent and Andrew Patton**).
- Society of Financial Econometrics (SoFiE) – Summer School, Kellogg School of Management at Northwestern University, Evanston, Il, July – 2017
  - *The Econometrics of Derivatives Markets* (Speakers: **Torben Andersen, Viktor Todorov and Nicola Fusari**).

SKILLS AND OTHER INFORMATION

- *Programming Languages:* MATLAB, R, GAUSS, Ox-Metrics, Python, C++, STATA, Eviews, SPSS, VBA.
- *Typesetting Programming:* LaTeX, LyX.
- *Database and Terminal:* TICKDATA, TAQ Databse, Bloomberg Terminal, Reuters, Datastream, CapitalIQ, WRDS
- *Language:* English (Fluent), Spanish (Native), French (Elementary)

Last Update: October 15, 2020