Debora Loccisano

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CONTACT INFORMATION	Loeb Building Carleton University 1125 Colonel By Drive Ottawa, ON K1S 5B6	deboraloccisano@cmail.carleton.ca

RESEARCH FIELDS

Econometrics, financial econometrics, financial risk management

EMPLOYMENT

Analyst/Economist, Treasury Board Secretariat of Canada, Privacy and Responsible Data Division, 2024-

Research and Policy Analyst, Privy Council Office, Chief Data Office, 2023-2024

Analyst, Statistics Canada, Agriculture Division, 2021-2023

Researcher (Internship), Annunziata Civic Hospital, Kidney and Transplant Research Department, 2016

EDUCATION

Carleton University (Canada)

Ph.D., Economics, 2025

Thesis: Three essays on the econometrics of tail and systematic risk
Supervisor: Prof. Lynda Khalaf
Nomination for a Senate Medal for Outstanding Academic Graduate Achievement

University of Calabria (Italy)

M.Sc., Finance and Insurance (with honours), 2019

Research Thesis: Bootstrap based tests on conditional risk measures

B.Sc., Statistics for Business and Insurance, 2016

Research Thesis: PAM algorithm: application in biomedical field

PUBLICATIONS

Co-movements, option pricing and risk management: an application to WTI versus Brent spread options (with D. De Giovanni, A. Leccadito). Annals of Operations Research, November 2022, 336, 1039-1061

JOB MARKET PAPER

Predictive Identification Robust Confidence Sets with Application to Tail Risk Measures (with L. Khalaf, A. Leccadito). Revise and Resubmit to the Journal of Financial Econometrics, 2025

Abstract: This paper proposes a novel method to construct confidence sets for predictive measures, that do not require identification and can be finite-sample exact. First, a joint robust confidence region for parameters that are hard to identify is constructed through the inversion of an out-of-sample specification adequacy test. This set is then projected to construct simultaneous confidence sets for any collection of measures over multiple paths. These sets provide a unified solution to confidence estimation and out-of- sample validation, without compounding type I error. We focus on tail risk metrics including Value at Risk, Expected Shortfall, and Expectile-VaR, allowing for multiple thresholds. Simultaneity further addresses joint elicitability concerns. An illustrative analysis on GARCH models is conducted, through Monte Carlo simulations and an empirical evaluation of an exchange-traded fund that tracks the technology sector.

WORKING PAPERS	*Tail risk in energy markets: jumps, volatility and systematic uncertainty* (with L. Khalaf, A. Leccadito), 2025. For submission to the Journal of Applied Econometrics
	Jump dynamics and systematic risk for low frequency forecasting: evidence from the energy markets, 2025

CONFERENCE PRESENTATIONS	*Jump Clustering and Tail Risk for energy commodities* (with L. Khalaf, A. Leccadito)
	Recent Developments in Economics, Econometrics and Finance Conference, Rimini (2022)
	Canadian Economics Association Conference, Ottawa (2022)
	28th International Conference on Computing in Economics and Finance, Dallas (2022)
	Predictive Identification Robust Confidence Sets with Application to Tail Risk Measures
	CIREQ, Recent Developments in Econometrics, Montreal (2023)
	NBER-NSF, Montreal (2023)
	Canadian Econometric Study Group Meeting, Hamilton (2023)
	(presented by L. Khalaf) New York Camp Econometrics XVIII, Lake Placid (2024)
	European Conferences of the Econom[etr]ics Community, Amsterdam (2024)
	17th Annual Society of Financial Econometrics Conference, Paris (2025)

TEACHING EXPERIENCE	Carleton University, Teaching Assistant for
	Introduction to Microeconomics (undergraduate)
	Intermediate Microeconomics I (undergraduate)
	Intermediate Macroeconomics II (undergraduate)
	Introductory Econometrics (undergraduate)
	Applied Data Analysis (undergraduate)
	Econometrics I (M.A)
	Methods of Economics Research (M.A.)
	Econometrics II (Ph.D.)
	Advanced Methods for Econometrics (Ph.D.)
	Carleton University, Instructor for
	Programming in R Workshop (Ph.D. level), 2022, 2023, 2024, 2025

ACADEMIC APPOINTMENTS	Research Assistant for Prof. Khalaf, Carleton University, 2019-2023

HONORS AND FELLOWSHIPS	Carleton University
	Carleton Departmental Scholarship, 2019-2024
	Full Graduate Teaching Assistantship, 2019-2023
	W. Irwin Gillespie Graduate Scholarship to the most outstanding Ph.D. student in the Economics program, 2022
	University of Calabria
	Research fellowship, Spring 2018
	Erasmus-Traineeship fellowship, Winter 2019
	Statistics Canada
	Appreciation Team Award, June 2022
LEADERSHIP AND SERVICE	Event coordinator, Economics Graduate Student Society, Carleton University, 2020-2021
	Co-president of the Economics Graduate Student Society, Carleton University, 2021-2022
	Steering committee member of FPA Graduate Conference, Carleton University, October – March 2022
REFERENCES	Lynda Khalaf
	Department of Economics Carleton University 1125 Colonel By Drive Ottawa, ON, K1S 5B6, Canada phone: +1 (613) 520-2600 ext.8697 e-mail: lynda.khalaf@carleton.ca
	Arturo Leccadito
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