



NYU

COURANT INSTITUTE OF
MATHEMATICAL SCIENCES

MATHEMATICAL MODELING IN FINANCE



Remembering Marco Avellaneda

Thursday,
18 April 2024
8:30am - 5:45pm

Wasserman Center for
Career Development,
New York University



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PROGRAM

8:30 AM - 9:00 AM

Breakfast

9:00 AM - 9:15 AM

Welcome: Prof. Russ Caflisch, Director,
NYU Courant Institute

9:15 AM - 9:55 AM

Rama Cont
Avellaneda in Monte Carlo:
A probabilistic approach to model
calibration and model risk

10:00 AM - 10:40 AM

Mike Lipkin
Working with Marco: Bringing feedback to
option pricing and stock dynamics

10:40 AM - 11:00 AM

Coffee break

11:00 AM - 11:40 AM

Steve Heston
A new closed-form discrete-time option
pricing model with stochastic volatility

11:45 AM - 12:25 PM

Andrew Papanicolaou
Eigen portfolio construction:
Name space vs rank space

12:25 PM - 1:50 PM

Lunch



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1:50 PM - 2:00 PM

Remarks: Prof. Jonathan Goodman,
NYU Courant Institute

2:00 PM - 2:40 PM

Nassim Taleb
Entropy, genetic distance, and maximum
ignorance probability

2:45 PM - 3:25 PM

Bruno Dupire
Weighted Monte Carlo
revisited

3:25 PM - 3:40 PM

Coffee break

3:40 PM - 4:20 PM

Jorge Zubelli
Local volatility estimation in the
presence of jumps

4:25 PM - 5:05 PM

Sasha Stoikov
Where market-making meets market
microstructure

5:10 PM - 5:45 PM

Panel
Reflections on Marco

5:45 PM

Reception



Scan the QR code to read
In memoriam:
Marco Avellaneda (1955–2022)
by Professor Rama Cont