# **Ernesto Carrella**

# **Employment**

University of Oxford	Oxford, UK
PostDoc	2015–present
George Mason University	Fairfax,VA
Research Assistant	2010–2015

### Education

Fairfax,VA
2010–2015
Urbana, IL
2008–2010
Hong Kong
2005-2008

# **Papers**

### Journal Articles

Work in Progress.....

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• E.Carrella, "Sticky Prices Microfoundations in a Agent Based Model Supply Chain" Revise & Resubmit

 presentation slides



• E.Carrella, "A Cybernetic Model of Macroeconomic Disequilibrium"

## Conference Papers.....

E.Carrella, "A Multi-Threaded Economy",
Presented at the Computing in Economics and Finance, 2012

E.Carrella and M. Hendrey, "An Order Book Immediacy Model",
Presented at the Workshop on Economic Heterogeneous Interacting Agents., 2012,

• E.Carrella, "*The Taxicab Market: simple ripoffs dynamics*", Presented at the SPP Graduate Research Conference, 2012,

conference paper

## **Awards**

## George Mason University

**Fairfax,VA** 2010–present

Presidential Scholar Grant

Tuition waiver and stipend for 3 years with 20 hours a week of research assistantship Professors assisted:

- Worked for Dr. Matthew Hendrey;
  - Financial simulation, order book dynamics
- Worked for Prof. Andrew Crooks;
  - 3D simulation, open-sim
- Worked for Dr. Maksim Tsvetovat;
  - Textual analysis and data mining
- Worked for Prof. Doyne Farmer, Rob Axtell, Peter Howitt
  - Housing market modeling and unit testing

# Languages

**English**: Fluent **Italian**: Native

# Computer skills

Java: JUnit, Swing, JavaFX, Concurrency

**Statistics**: R, MySQL **ABM**: MASON, NetLogo

Authoring: LATEX, Markdown, KnitR, Jekill

## Statistic skills

Classic Econometrics: Least Squares, Kalman Filters, Time Series, Survival Analysis Non-Parametrics: Kernel Regressions, Support Vector Machines, Random Forests Machine Learning: Cross-Validation and Model Selection, Monte Carlo modeling

# **Immigration Status**

Citizenship: Italian

**US Visa**: F1 with OPT and CPT available