

# Ernesto Carrella

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## Education

- 2010–present **PHD, Computational Social Science**, *George Mason University*, Fairfax, VA.
- 2008–2010 **M.Sc Economic Policy**, *University of Illinois*, Urbana, IL.  
Specialization in Advanced Econometrics
- 2005–2008 **B.Sc Economics**, *Chinese University of Hong Kong*, Hong Kong.

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## Papers

1. E.Carrella, "*Sticky Prices Microfoundations in a Agent Based Model Supply Chain*"  
To be presented at the Computing in Economics and Finance, 2014  
 link to [github repository](#),  link to [paper](#),  link to [slides](#),  video of the [presentation](#) .
2. E.Carrella, "*Zero Knowledge Firms*",  
Forthcoming on *Journal of Artificial Societies and Social Simulation*  
Presented at the Eastern Economic Association Meetings, 2013  
 link to [github repository](#), .
3. E.Carrella, "*A Multi-Threaded Economy*",  
Presented at the Computing in Economics and Finance, 2012 ,  
 link to [github repository](#),  link to [paper](#) .
4. E.Carrella and M. Hendrey, "*An Order Book Immediacy Model*",  
Presented at the Workshop on Economic Heterogeneous Interacting Agents., 2012 ,  
 link to [paper](#) .
5. E.Carrella, "*The Taxicab Market: simple ripoffs dynamics*",  
Presented at the SPP Graduate Research Conference, 2012 ,  
 link to [paper](#) .

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## Award

- 2010–present **Presidential Scholar Grant**, *George Mason University*, Fairfax, VA.  
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 John Geanakoplos
    - Housing market modeling and unit testing

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 <http://carrknight.github.io/>

 [GitHub Home](#) •  [LinkedIn Profile](#)

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## Languages

English **Fluent**

Italian **Native**

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## Computer skills

Java JUnit, Swing, Guice (for dependency injection), Concurrency

Statistics R, Weka

Agent Based Modeling MASON, NetLogo

LaTeX Like this cv

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## Statistic skills

Classic Econometrics Linear Regression, Time Series, Survival Analysis

Non-Parametrics Kernel Regressions, Support Vector Machines, Random Forests

Machine Learning Cross-Validation and Model Selection, Monte Carlo modeling

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## Immigration Status

Citizenship **Italian**

US Visa **F1**

*with OPT and CPT available*

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