Ernesto Carrella

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.

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 .

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

+1 (703) 577 8412 • ernesto.carrella@gmail.com
carrknight.github.io/ • GitHub Home • LinkedIn Profile

Languages

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

Computer skills

Java	JUnit, Swing, Guice (for dependency injection), Concurrency
Statistics	R, Weka
Agent Based Modeling	MASON, NetLogo
LaTeX	Like this cv

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

Immigration Status

Citizenship	**Italian**	
US Visa	**F1**	*with OPT and CPT available*