A Gentle Introduction to Computational Statistical Catallactics

Abstract: In this talk, I will introduce you to the catallactic point of view of the Nobel Prize winners F.A. Hayek and James Buchanan. I will further discuss directions that I am now taking in my research agenda to deliver on Buchanan's challenge to create a sophisticated catallactics within economics. I will discuss how we can develop tools from the Agent-Based Computational Economics (ACE) tradition that are appropriate for this purpose. We will confront the critique of ACE models put forth by Steven Durlauf and offer ways to address this critique. I will discuss my current research into the options market-making function of derivatives markets as an application of these methods.

Short Bio: Dr. Tyler J. Brough earned his MS in Finance from University of Illinois at Urbana-Champaign in 2004 and his Ph.D. in Finance in 2010 from University of Arizona. Since then, he has moved to Utah State University. Currently, he is an associate professor in the Jon M. Huntsman School of Business. His research interests are empirical market microstructure, derivative markets, applied econometrics and computational methods in general.