

# AARON L BRAMSON

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## EDUCATION

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**University of Michigan**, Ann Arbor, Michigan September 2004 to May 2010  
Master of Arts in Political Science focusing on Methodology December 2008  
Certificate in Complex Systems and Agent-Based Computational Models December 2008  
Ph.D. candidate in Joint Degree with Political Science and Philosophy.

**Santa Fe Institute**, Santa Fe, New Mexico June 2005 and July 2006  
Intensive summer school programs on complex systems and related topics.

**Northeastern University**, Boston, Massachusetts September 2002 to May 2004  
M.S. in Mathematics with a concentration in probability and statistics.

**University of Florida**, Gainesville, Florida August 1995 to August 1999  
B.S. in Economics with Honors and B.A. in Philosophy with Honors

## WORK EXPERIENCE

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**Metrics and Measures Development, Multi-Int Fusion** May 2007 to present  
Lockheed Martin Corporation, San Diego, CA  
Developed multi-int fusion methodologies for AFUO program and participated in technology development for IRAD and new contract proposals for cultural fusion, social network analysis, and incorporating complex systems methods.

**Network Analysis and Software Development** September 2006 to April 2007  
Research Foundation at CUNY, New York, NY  
Generated network visualization and analysis toolkit for global terrorist activity research as an independent contractor. Model accepts relational database and returns graphical and mathematical representations of activity.

**ICPSR Instructor** August 2005, 2006, 2007, 2008, and 2009  
University of Michigan, Ann Arbor, MI  
Created and taught a workshop on building computer models for complex systems at the Inter-university Consortium for Political and Social Research (ICPSR) Summer Program in Quantitative Methods.

**Summer Research Assistant** June 2003 to August 2003  
Air Force Research Laboratory (AFRL), Rome, NY  
Analyzed a high-level fusion project then under development and provided metrics to measure and improve system performance. Recommended methods to improve robustness, reliability, and quality assurance capabilities of the output. Produced technical paper presented at S.P.I.E. 2004 (see below).

**Research Consultant** February 2003 to September 2004  
L-3 Communications, Inc. Rome, NY  
Performed independent research to analyze alternative approaches to providing a decision support tool for solving communication inter-operability issues. Provided a white paper on related AI technologies. Secret clearance issued.

**Research Associate** February 2002 to August 2002  
Valkyrie Technologies, Inc. West Melbourne, FL  
Investigated advanced techniques for decision aiding with incomplete and uncertain data. Evaluated evidential reasoning methods including Bayesian and Dempster-Shafer techniques, fuzzy logic and neural networks. Performed independent research and provided monthly reports.

## PUBLICATIONS

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Proceedings of the 2004 S.P.I.E. Defense and Security Conference  
*Methodology for Building Confidence Measures*, April 2004

## RELEVANT SKILLSET

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Mathematica, Java, NetLogo, L<sup>A</sup>T<sub>E</sub>X, HTML, CSS, JavaScript, Flash, and Photoshop