

# ANDREW J. COE

## PROFESSIONAL EXPERIENCE

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July 2002 - Present                      Institute for Defense Analyses                      Alexandria, VA

*Research Staff Member: Strategy, Forces, and Resources Division*

- Performing research on issues of international security (nuclear proliferation, crisis management, counter-terrorism, East Asia) and defense organization (interagency cooperation, defense acquisition, resource allocation)
- Employing ideas from game theory, organizational design, and cognitive psychology
- Entered as a research associate; promoted within three years to a permanent member of the Research Staff
- In 900-employee Institute (of whom 91% have advanced degrees), youngest member of the permanent Research Staff and only member without an advanced degree or long experience
- Offered leadership of several major research projects

Spring 2001, 2002                      California Institute of Technology                      Pasadena, CA

*Teaching Assistant*

- Taught a section of students and graded homeworks and exams in introductory economics and cognitive psychology classes

Summer 1998, 1999, 2000                      California Institute of Technology                      Pasadena, CA

*Research Fellow*

- Competed for and won three summer undergraduate research fellowships
- In 2000, mathematical research on the complexity and classification of two-dimensional lattices (Nivat's Conjecture)
- In 1998 and 1999, research on neutral hydrogen dynamics in spiral galaxies, using theory of galactic dynamics and computer modeling

Summer 1997                                      OK Medical Research Foundation                      Oklahoma City, OK

*Research Assistant*

- Won highly-competitive Sir Alexander Fleming Scholarship as a high school junior (most winners are in college)
- Immunobiological research on developmental expression of CD73 in T-cells

## EDUCATION

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2006 – Present                                      Harvard University                                      Cambridge, MA

*Ph. D. Student, Department of Government*

- Coursework in international relations, political economy, game theory, and statistics
- Advisor: Beth Simmons

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1998 – 2002                                      California Institute of Technology                                      Pasadena, CA

*Bachelor of Science, Mathematics*

- Graduated with honors; GPA: 3.9
- Besides requirements of major, coursework in physics, applied mathematics, economics, psychology, and law

1994-1998                                      Santa Fe High School                                      Edmond, OK

- Graduated 1<sup>st</sup> of class of 333
- Captain of academic team; Vice President of National Honor Society

#### AWARDS RECEIVED

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- Yale Sterling Fellowship (declined)
- In Institute-wide competition, awarded \$25,000 twice to pursue independent research projects at IDA
- Awarded three summer undergraduate research fellowships at Caltech
- Caltech Merit Scholarship (\$75,800; full tuition for four years)
- Caltech Lingle Scholarship (\$30,000; room and board for four years, awarded each year to incoming freshman showing greatest potential)
- Sir Alexander Fleming Scholar (see OK Medical Research Foundation, above)
- Max Roy Scholarship (\$54,000 from Rice University, declined)
- Oklahoma State Regents Scholar (full scholarship to any in-state college, declined)
- Westinghouse Science Talent Search semi-finalist
- National Merit Scholar
- Robert Byrd Scholar
- Academic team went to four national championships; placed in top 20 in junior year, 2<sup>nd</sup> in senior year, top 15 at National Science Bowl
- All-Star academic team player in Oklahoma – rated 1<sup>st</sup> in state

#### PUBLICATIONS

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From Institute for Defense Analyses:

- Co-author, *US Special Operations Command Roles and Missions: Independent Assessment*, 2005
- Author, *An Assessment of the Need for New Nuclear Weapons*, 2005
- Co-author, *The New Triad: Potential Implications for a Nuclear War over Taiwan*, 2005
- Co-author, *Review of Risk Assessment Methodologies for the Department of Homeland Security*, 2005
- Co-author, *Relating Reserve Component Training and Outcome Measures*, 2005
- Co-author, *PDM-Directed Special Operations Forces Study: Working Group Report*, 2003
- Co-author, *Defense Venturing Process: A Model for Engaging Venture Capitalists and Innovative Emerging Companies*, 2003

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Published elsewhere:

- Author, “North Korea’s New Cash Crop,” *The Washington Quarterly* 28, no. 3 (Summer 2005): 73-84
- Co-author, “CD73 Expression and fyn-Dependent Signaling on Murine Lymphocytes,” *European Journal of Immunology* 28: 2891-2990 (1998)

In preparation:

- Co-author, “Classification and Modeling of Neutral Hydrogen Profiles of Spiral Galaxies”
- Co-author, “Correlations for Spiral Galaxies between Neutral Hydrogen Gas Distribution and 21-cm Velocity Dispersion Profiles”
- Author, “A Perspective on Nuclear Weapons and Global Stability”
- Co-author, “Understanding Conflicts in a More Proliferated World”

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