

GAUTAM MUKUNDA
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Education

- 2004-2010 **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** **Cambridge, MA**
PhD, Political Science
- Dissertation: “The Paths of Glory: Structure, Selection, and Leaders”
 - Dissertation Defended September 2010
 - Committee: Stephen Van Evera (Chair), Kenneth Oye, Roger Petersen, Stanley Hoffmann
 - General Exams in International Relations passed in September 2006
 - Prospectus defended May 2007
 - Second Dissertation Colloquium completed in November 2009
 - Major Field: International Relations
 - Minor Field: Security Studies
 - Affiliations:
 - MIT Security Studies Program (SSP)
 - MIT Program on Emerging Technologies (PoET)
 - NSF Synthetic Biology Engineering Research Center (SynBERC) – Vice-Chair of the Student Leadership Council
 - American Political Science Association (APSA)
 - Member, Nominating Committee, APSA Science, Technology, and Environmental Politics Section
 - International Studies Association (ISA)
 - Additional Training
 - Institute on Qualitative and Multi-Method Research
 - Institute on Global Conflict and Cooperation Public Policy and Nuclear Threats Seminar
 - Institute on Global Conflict and Cooperation Public Policy and Biological Threats Seminar
- 2002 **TUCK SCHOOL OF BUSINESS, DARTMOUTH COLLEGE** **Hanover, NH**
- Business Bridge Program on business fundamentals, including accounting, corporate finance, marketing, and managerial economics
 - Member of a 4-person team that conducted a consulting project for a New Hampshire business and was selected as the top consulting team at the program
- 1997-2001 **HARVARD COLLEGE** **Cambridge, MA**
A.B., Government, magna cum laude
- Team Captain of National Champion Harvard College Bowl Team
 - Thesis: “The Status Quest in International Relations,” Advised by Professor Stanley Hoffmann
- 1993-1997 **MONTGOMERY BLAIR MATH & SCIENCE MAGNET** **Silver Spring, MD**
U.S. Presidential Scholar, Westinghouse Semi-Finalist, Herff-Jones Academic All-American, Twice Captain of State All-Star Academic Team, 4 time national academic champion

Experience

- 2010-Present **NATIONAL SCIENCE FOUNDATION SYNTHETIC BIOLOGY ERC** **Cambridge, MA**
Post-Doctoral Fellow Resident at MIT Center for International Studies
- 2004-2010 **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** **Cambridge, MA**
Research Assistant, Prof. Kenneth Oye

- 2004-Present **THE TWO RIVERS GROUP** **Cambridge, MA**
Managing Director
- Conducted an assessment of the United States' readiness for a bioterrorist attack or natural epidemic, developing policy and technology recommendations for a global management consulting firm, a university bioterrorism center, and a technology development think tank
 - Project Specialist for Gerson Lehrman Group (GLG)
 - Conducted studies on the worldwide market growth and marketing strategy in photovoltaics for a worldwide software company
 - Analyzed potential market size for photovoltaics and identified potential site locations for photovoltaic installations for a major American public utility
 - Analyzed the price elasticity of railroad freight for a private equity firm identifying potential acquisition targets
 - Developed a Carbon Sequestration strategy for a major American utility
 - Led multi-Project Specialist team identifying potential acquisition targets for a major private equity fund
 - Chosen as GLG Scholar – rated in top 20% of all their consultants worldwide
- 2008 **HARVARD UNIVERSITY** **Cambridge, MA**
Teaching Assistant, Moral Reasoning 28: Ethics and International Relations
- Led two undergraduate sections for a class in Harvard's Core Curriculum taught by Prof. Stanley Hoffmann and Father Brian Hehir
 - Received a 4.7 out of 5.0 overall rating and a 5.0 out of 5.0 for "Effective Lectures and Presentations" with a student response rate of over 90%
- 2002-2004 **McKINSEY & COMPANY** **New York, NY**
Business Analyst
- Developed a new federal political lobbying strategy while working directly with the CEO and top 15 other executives of a \$100B+ pharmaceutical company
 - Conducted an assessment of the issues and implications for the financial markets created by the aging of the populations of industrialized nations
 - Part of a two-person team that conducted a worldwide analysis of the performance and current strategy of the largest product of a \$100B+ pharmaceutical company
 - Developed a Japanese clinical trial and direct-to-consumer marketing strategy for the largest product of a \$100B+ pharmaceutical company
 - Developed overall evaluation of British competitiveness in high technology industries for delivery to British Cabinet by CEO of a \$100B+ pharmaceutical company
 - Drafted vision statement delivered by CEO of a \$100B+ pharmaceutical company to his top 1000 executives laying out his strategy for the company's next five years
- 2001-2 **HARVARD KENNEDY SCHOOL** **Cambridge, MA**
Coordinator, Kommersant Program on Executive Education and Administrator, Russian Investment Symposium
- Managed an international Executive Education Program that held monthly sessions in Moscow for senior Russian businessmen on American management techniques
 - Managed University relationship with senior executives of Global 1000 companies and created a special series of meetings for very senior attendees, including Cabinet members and Fortune 500 CEOs
 - Coordinated with international partner companies, maintained web page, and managed information flow for a 12 person team running the world's largest gathering of business and political leaders on the Russian investment environment
- 2001-2 **EXCELSIOR EDUCATION** **Cambridge, MA**
Founder
- Mathematics education company with profits for 2001-2 school year of \$12,000+
 - Identified and developed a market of advanced students desiring individual attention, creative curricula, and higher level mathematics beyond the capacity of their schools

Awards and Fellowships

2010 Poster Award at SynBERC Annual Retreat

2010 Next Generation Fellow chosen by The American Assembly

2009 Travel Grant awarded to present at American Political Science Association Annual Meeting in Toronto, September 2009

2008 Derek Bok Certificate for Excellence in Teaching

2008 BioBricks Foundation Fellowship to present at Synthetic Biology 4.0 in Hong Kong

2007 Fellowship to attend 2007 Institute on Global Conflict and Cooperation Seminar on Public Policy and Nuclear Threats

Selected to attend 2007 IGCC Seminar on Public Policy and Nuclear Threats

2007 Traveling Fellowship awarded to present at Synthetic Biology 3.0 in Zurich, Switzerland

2007-2009 NSF IGERT Fellowship awarded to study the forecasting, management, and implications of emerging technologies

Selected to attend the 2006 Institute on Global Conflict and Cooperation Seminar on Public Policy and Biological Threats

Awarded a 2006 Carnegie Endowment Biosecurity Fellowship to attend 2006 IGCC Biosecurity Seminar

2005-2007 Paul & Daisy Soros Foundation New American Fellow

2000 John Harvard Scholarship

1998, 1999, 2001 Harvard College Scholarship

Publications, Working Papers, & Presentations

Peer-Reviewed Publications:

Gautam Mukunda, "We Cannot Go On: Disruptive Innovation and the First World War Royal Navy," *Security Studies*, Vol. 19, No. 1 (Winter 2010), pp. 124-159.

Gautam Mukunda, Kenneth A. Oye, and Scott C. Mohr, "What Rough Beast: Synthetic Biology, Uncertainty, and the Future of Biosecurity," *Politics and the Life Sciences*, Vol. 28, No. 2 (September 2009), pp. 2-26. [Lead Article]

Rachel Wellhausen and Gautam Mukunda, "Aspects of the Political Economy of Development and Synthetic Biology," *Systems and Synthetic Biology*, Vol. 3, No. 1-4 (December 2009), pp. 115-123.

Gautam Mukunda and Major General William J. Troy, "Caught in the Net: Lessons from the Financial Crisis for a Networked Future," *Parameters*, Vol. 39, No. 2 (2009), pp. 63-76.

Working Papers:

"The Status Quest and International Relations." Working Paper.

"Aging People, Desperate Men: Demographic Change and the Balance of Power." Working Paper.

Conference Presentations:

Presenter, "The Paths of Glory: Structure, Selection, and Leaders" in Panel: "Elites, Beliefs, and Foreign Policy," International Studies Association Annual Meetings, Montreal, March 2011 [Paper accepted for panel presentation]

Presenter, "The Status Quest in International Relations" in Panel: "Theories on the Nature of International Organization," International Studies Association Annual Meetings, Montreal, March 2011 [Paper accepted for panel presentation]

Presenter and Panel Organizer, "The Paths of Glory: Structure, Selection, and Leaders" in Panel: "Leaders in International Relations and Foreign Policy," American Political Science Association Annual Meetings, Washington, DC September 2010

Chair and Discussant, "Today's Science Fiction, Tomorrow's Policy?," American Political Science Association Annual Meetings, Toronto, September 2009

"What Rough Beast: Synthetic Biology, Uncertainty, and the Future of Biosecurity," American Political Science Association Annual Meetings, Toronto, September 2009

"We Cannot Go On: Disruptive Innovation and the First World War Royal Navy," International Studies Association Annual Meetings, New York, February 2009

With Rachel Wellhausen, "The Rumpelstiltskin Effect: Synthetic Biology and International Trade," Synthetic Biology 4.0, Hong Kong, October 2008

With Scott C. Mohr, "DNA Synthesis, Synthetic Biology, and Biosecurity," Synthetic Biology 3.0, Zurich, Switzerland, June 2007

Invited Talks:

"New Possibilities: Synthetic Biology and Biosecurity" at *World Health Summit*, Berlin, October 10, 2010

"The Paths of Glory: Structure, Selection, Leaders, and Performance," Harvard Business School, Technology and Operations Management Unit, February 2010 [Job Talk]

"The Paths of Glory: Structure, Selection, and Leaders," Georgia Institute of Technology, Center for International Strategy, Technology and Policy and College of Management, January 2010

Invited Faculty Speaker, "Synthetic Biology and the Future of Biosecurity," American Society of Microbiologists Biodefense Meeting, Baltimore, MD, February 2009

"The Ethical Implications of Synthetic Life," University of Maryland Baltimore Campus, April 2008

"Dr. Strangename: Or, How I Learned to Stop Worrying and Love Indian PhDs," Harvard Law School Conference on Global Hiring Strategies, Cambridge, MA, October 2004

Personal

- Member of Board of Directors and Chairman of the Mentorship Committee of the *Upakar Foundation*, a national nonprofit dedicated to helping underprivileged students of South Asian descent pursue higher education
 - Retention of scholars improved from under 25% to >90% in two years
 - Founder, *Upakar Boston*
- Interviewer for Paul & Daisy Soros New American Foundation
- Judge, International Genetically Engineered Machines (iGEM) Competition, 2009
- Featured in documentary *Synbiosafe: Synthetic Biology and its Safety and Ethical Aspects*