

# CURRICULUM VITAE

KIRSTIN R.W. MATTHEWS

FELLOW IN SCIENCE AND TECHNOLOGY POLICY,  
BAKER INSTITUTE FOR PUBLIC POLICY  
RICE UNIVERSITY

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Twitter: [@stpolicy](https://twitter.com/stpolicy)

Google Scholar Profile [https://scholar.google.com/citations?user=z3MQ\\_w0AAAAJ&hl=en](https://scholar.google.com/citations?user=z3MQ_w0AAAAJ&hl=en)

*revised August 2015*

## EDUCATION

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| May 2003 | Ph.D. in Molecular Biology<br>The University of Texas Health Science Center at Houston<br>“The Characterization of Mouse Carboxypeptidase N Small Subunit Gene Structure and the Expression of Complement C3 and Carboxypeptidase N in Mouse Development”<br>Supervising Professor Dr. Rick A. Wetsel |
| May 1996 | B.A. in Biochemistry<br>The University of Texas at Austin                                                                                                                                                                                                                                             |

## PROFESSIONAL APPOINTMENTS

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|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2008-present | Fellow in Science and Technology Policy<br>James A. Baker III Institute for Public Policy<br>Rice University                                            |
| 2014-present | Joint Faculty<br>Department of BioSciences<br>Rice University                                                                                           |
| 2011-present | Lecturer<br>Wiess School of Natural Sciences<br>Rice University                                                                                         |
| 2010-present | Adjunct Lecturer<br>Department of Sociology<br>Rice University                                                                                          |
| 2006-2008    | Science and Technology Policy Program Manager<br>James A. Baker III Institute for Public Policy<br>Rice University                                      |
| 2004-2006    | Postdoctoral Research Associate<br>James A. Baker III Institute for Public Policy<br>Rice University                                                    |
| 2004-2006    | Project Director<br>Task Force “Access to Health Care in Texas: The Challenges of the Uninsured and the Underinsured”<br>The University of Texas System |

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|-----------|-------------------------------------------------------------------------------------------|
| 2003-2004 | Postdoctoral Research Associate<br>Department of Physics and Astronomy<br>Rice University |
| 2003-2004 | Research Assistant<br>James A. Baker III Institute for Public Policy<br>Rice University   |

## PROFESSIONAL SOCIETIES

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|              |                                                                    |
|--------------|--------------------------------------------------------------------|
| 2003-present | Member, American Association for the Advancement of Science (AAAS) |
| 2007-present | Member, International Society for Stem Cell Research               |
| 2014-present | Member, American Society for Bioethics and Humanities              |

## OTHER PROFESSIONAL ACTIVITIES

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|                    |                                                                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 2014, 2015         | Visiting Scholar, Wake Forest University Center for Ethics and Society                                                                        |
| 2015-present       | Member of Stem Cell Research Oversight Committee (SCRO), The University of Texas Health Science Center at Houston                             |
| 2015               | Drafting Delegate for 2015 BEINGS – Biotechnology and Ethical Imagination Global Summit in Atlanta, Georgia                                   |
| 2009-present       | Director, Baker Institute International Stem Cell Policy Program (Center for Health and Biosciences)                                          |
| 2015-present       | Director, Baker Institute's Biomedical Research policy program (Center for Health and Biosciences)                                            |
| 2011-present       | Track Advisor, Professional Science Master's Program Track in Bioscience and Health Policy, Rice University's Wiess School of Natural Science |
| June 2007-Dec 2009 | Community Advisory Board Member, Center for Clinical and Translation Sciences at the University of Texas Health Science Center at Houston     |

Referee for Journals: Regenerative Medicine, Science and Public Policy, PLoS ONE (Public Library of Science ONE), Nature Methods, Science and Engineering Ethics

## POLICY PUBLICATIONS

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Cuchiara, Maude L., Jackie K. Olive, and Kirstin R.W. Matthews. 2015. "[Regulating the therapeutic translation of regenerative medicine.](#)" *Expert Opinion on Biological Therapy* (in press)

Matsumoto, Monica M, Rana Dajani, Kirstin R.W. Matthews. 2015. "[Cord Blood Banking in the Arab World: Current Status and Future Developments.](#)" *Biology of Blood and Marrow Transplantation* 21(7):1188-1194.

Howard Ecklund, Elaine, David R. Johnson and Kirstin R.W. Matthew. 2015. "[Study highlights ethical ambiguity in physics.](#)" *Physics Today* June:p 6-7.

Matthew, Kirstin R.W. and Maude L. Cuchiara. 2014. "[U.S. National Football League Athletes Seeking Unproven Stem Cell Treatments.](#)" *Stem Cells and Development* 23,S1:60-64.

Matthew, Kirstin R.W. and Maude L. Cuchiara. 2014. "[Professional Athletes & Unproven Stem Cell Treatments.](#)" *Texas CEO Magazine* November 29, 2014.

- Matsumoto, Monica M. and [Kirstin R.W. Matthews](#). 2014. "[Cord Blood Banking in the United States: A Public Need for Policy Commitments](#)." Baker Institute Policy Report #62 (October).
- Matsumoto, Monica M. and [Kirstin R.W. Matthews](#). 2014. "[Human Papillomavirus Vaccine: A Public Policy Opportunity for Texas](#)." Baker Institute Policy Brief (October 6, 2014)
- Matthews, Kirstin R. W. and Hagop Kantarjian. 2014 "[HPV Vaccine Should be Texas Requirement](#)." *Houston Chronicle* October 3.
- Matthews, Kirstin R. W., Jon Flynn, and Monica M. Matsumoto. 2014. "[Middle East Respiratory Syndrome](#)" Baker Institute Policy Brief (July 25, 2014)
- Cuchiara, Maude Rowland and [Kirstin R.W. Matthews](#). 2014. "[Gene Patents, Patenting Life, and the Impact of US Stem Cell Patents and Research](#)." *Regenerative Medicine* (in press).
- Cuchiara, Maude Rowland, James Lawford Davies and [Kirstin R.W. Matthews](#). 2013. "[Defining 'Research' in the US and EU: Contrast of \*Sherley v. Sebelius\* and \*Brüstle v. Greenpeace\* Rulings](#)" *Stem Cell Reviews and Reports* 9(6): 743-751.
- Luo, Jingyuan and [Kirstin R.W. Matthews](#). 2013. "[Globalization of Stem Cell Science: An Examination of Current and Past Collaborative Research Networks](#)" *PLoS ONE* 8(9): e73598.
- Romar, George and [Kirstin R.W. Matthews](#). 2013. "[Considerations on US Government Involvement in Education and Early Childhood Interventions](#)." *Journal of Science Policy and Governance* 3(1):1-7.
- Neal Lane and [Kirstin R.W. Matthews](#). 2013. "[Science and Technology: Ensuring America's Science Future](#)" in the *Baker Institute 2013 Policy Recommendations for the Obama Administration* (March).
- [Matthews, Kirstin R.W.](#), Maude Rowland Cuchiara, Jingyuan Luo, Abdelali Haoudi and Ayman Bassil. 2013. "[International Stem Cell Science and Policy](#)." Baker Institute Policy Report #56 (February).
- Moloney, Pdraig and [Kirstin R.W. Matthews](#). 2013. "[Thinking big about the future](#)" *Physics World*, February.
- [Matthews, Kirstin R.W.](#) and Maude Rowland. 2012. "[Global Update: USA](#)." *Regenerative Medicine* 7(6 Supplement):126-129.
- Evans, Kenneth M., Pdraig Moloney, and [Kirstin R.W. Matthews](#). 2012. "[Time to Reinvest in Houston's Greatest Legacy](#)." *Houston Chronicle*, October 28.
- [Matthews, Kirstin R.W.](#), Brent Carey, Kenneth M. Evans, and Pdraig Moloney. 2012. "[NASA's Relationship with Nanotechnology: Past, Present and Future Challenges](#)." Baker Institute Policy Report #54 (October).
- [Matthews, Kirstin R.W.](#), Maude Rowland, Jingyuan Luo, and Monica Matsumoto. 2012. "[Stem Cell Research in the Courts: \*Sherley vs. Sebelius\*](#)." Baker Institute Policy Report #50 (January).
- [Matthews, Kirstin R.W.](#), Kara M. Calhoun, Nathan Lo and Vivian Ho. 2011. "[The Aging of Biomedical Research in the United States](#)" *PLoS ONE*. 6(12), e29738.
- [Matthews, Kirstin R.W.](#). 2011. "[Global Update: USA](#)." *Regenerative Medicine* 6(6 Supplement):136-139.
- [Matthews, Kirstin R.W.](#), Neal F. Lane, and Kenneth M. Evans. 2011. "[U.S. Scientific Research and Development: A Critical Look at the U.S. Federal Research and Development Funding System](#)." *Science Progress*, July 21.

- Djerejian, Edward P., Neal F. Lane, and Kirstin R.W. Matthews. 2011. "[Science, Diplomacy, and International Collaboration.](#)" *Houston Chronicle*, March 20.
- Luo, Jingyuan, Jesse M. Flynn, Rachel E. Solnick, Elaine Howard Ecklund, and Kirstin R.W. Matthews. 2011. "[International Stem Cell Collaborations: How Disparate Policies between the United States and the United Kingdom Impact Research.](#)" *PLoS ONE* 6(3), e17684.
- Matthews, Kirstin R.W. and Maude Rowland. 2011. *Stem Cells Policy and Biomedical Research in Texas.* Baker Institute Research Report (January).
- Matthews, Kirstin R.W. and Maude Rowland. 2011. "[Stem cell policy in the Obama age: U.K. and U.S. perspectives.](#)" *Regenerative Medicine* 6(1): 125-132.
- Lo, Nathan, Kara Calhoun, Kenneth Evans, Kirstin R.W. Matthews, and Neal Lane. 2010. [C60—A Model for the Future.](#) Baker Institute, Civic Scientist Précis (October).
- Matthews, Kirstin R.W. and Maxie Hollingsworth. 2010. "[Making the Case for Civic Engagement in Schools.](#)" *Houston Chronicle*, April 8.
- Flynn, Jesse M., and Kirstin R. W. Matthews. 2010. "[Stem Cell Research in the Greater Middle East: The Importance of Establishing Policy and Ethics Interoperability to Foster International Collaborations.](#)" *Stem Cell Reviews and Reports* 6(2): 143-150.
- Matthews, Kirstin R.W., and Maude Rowland. 2010. [Stem Cell Policy in the Obama Age: Texas, U.S. and U.K. Perspectives.](#) Baker Institute Conference Report (March).
- Tambra, Sarah, and Kirstin R.W. Matthews. 2010. [U.K. Stem Cell Policy—A Civic Scientist's Journey through Regulation.](#) Baker Institute, Civic Scientist Précis (March).
- Flynn, Jesse M., and Kirstin R.W. Matthews. 2010. "[Stimulus funds creating jobs for Houston scientists.](#)" *Houston Chronicle*, February 24.
- Lane, Neal, and Kirstin Matthews. 2009. "[The President's Scientist.](#)" *Cell* 139 (5): 847-850.
- Matthews, Kirstin, Neal Lane, and Abdelali Haoudi. 2009. [Stem Cells: Saving Lives or Crossing Lines—Qatar Stem Cell Workshop.](#) Baker Institute Policy Report #44 (August).
- Matthews, Kirstin, and Neal Lane. 2009. [Science Collaborations Across Borders.](#) Baker Institute Policy Report #42 (August).
- Kirstin Matthews, Smulcer, Lauren, Amy Myers Jaffe, and Neal Lane. 2009. [Sustainable U.S. Policy Options to Address Climate Change: Highlights of the Debate.](#) Baker Institute Policy Report #41 (June).
- Matthews, Kirstin. 2009. "[Wanted: Federal Stem Cell Research Oversight.](#)" *Houston Chronicle*, February 15.
- Matthews, Kirstin, and Neal Lane. 2008. [Human Embryonic Stem Cell Research: Recommendations for the Next Administration.](#) Baker Institute Transition Paper (December).
- Lane, Neal, and Kirstin Matthews. 2008. [Science and Technology: Recommendations for the Next Administration.](#) Baker Institute Transition Paper (December).
- Matthews, Kirstin, Lauren Smulcer, Amy Myers Jaffe and Neal Lane. 2008. [Beyond Science: The Economics and Politics of Responding to Climate Change.](#) Baker Institute Conference Report.
- Matthews, Kirstin, and Vivian Ho. 2008. "[The Grand Impact of the Gates Foundation.](#)" *EMBO Reports* 9(5): 409-412.

- Matthews, Kirstin, and Neal Lane. 2007. [Hot Topic: Stem Cell Controversy—Are Human Skin Cells Really the Breakthrough?](#) Baker Institute What We're Thinking (December).
- Lane, Neal, and Kirstin Matthews. 2007. [Hot Topic: Innovation and Economic Competitiveness through Science and Technology](#). Baker Institute What We're Thinking (October).
- Matthews, Kirstin, and Neal Lane. 2007. [U.S. Stem Cell Policy—Unintended Consequences](#). Baker Institute What We're Thinking (October).
- Matthews, Kirstin. [Avenues for Advancement](#). 2007. Baker Institute Conference Summary (August).
- Matthews, Kirstin. 2006. [Lessons Learned: U.S. Embryonic Stem Cell Policies](#). Baker Institute Policy Report #33 (October).
- Matthews, Kirstin, and Amy Myers Jaffe, eds. 2006. [Bridging the Gap Between Science and Society: The Relationship Between Policy and Research in National Laboratories, Universities, Government and Industry](#). Conference proceedings (September).
- Task Force on "[Access to Health Care in Texas: The Challenges of the Uninsured and Underinsured.](#)" *Code Red: The Health of Texas*. 2006 (project officer, contributing editor, and author).
- Neal Lane, Matthews, Kirstin, Amy Myers Jaffe and Rosina Bierbaum. 2005. "[Bridging the Gap Between Science and Society](#)" Baker Institute Study #32 (November).
- Matthews, Kirstin, and Neal Lane. 2005. [Stem Cells: Saving Lives or Crossing Lines](#). Baker Institute Study #31 (September).
- Matthews, Kirstin. 2004, 2005, 2006, 2007, 2008, 2009. [Stem Cell Science and Policy Overview](#).
- Matthews, Kirstin. 2009-present. [Baker Institute Blog contributor](#).

## RESEARCH PUBLICATIONS

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- Matthews, Kirstin W., Stacey L. Mueller-Ortiz and Rick A. Wetsel. 2004. "[Carboxypeptidase N: a pleiotropic regulator of inflammation](#)." *Molecular Immunology* 40(11): 785-793.
- Matthews, Kirstin W., Scott M. Drouin, Chengyu Liu, James F. Martin, Randall A. Skidgel, and Rick A. Wetsel. 2004. "[Expression of the Third Complement Component \(C3\) and Carboxypeptidase N Small Subunit \(CPN1\) during Mouse Embryonic Development](#)." *Developmental and Comparative Immunology* 28(6): 647-655.
- Matthews, Kirstin W., and Rick A. Wetsel. 2001. "[Characterization of Mouse Carboxypeptidase N Small Active Subunit Gene Structure](#)." *Journal of Immunology* 166: 6196-6202.
- Kildsgaard, Jens, Travis J. Hollmann, Kirstin W. Matthews, Ka Bian, Ferid Murad, and Rick A. Wetsel. 2000. "[Cutting Edge: Targeted disruption of the C3a Receptor Gene Demonstrates a Novel Protective Anti-Inflammatory Role for C3a in Endotoxin-Shock](#)." *Journal of Immunology* 165: 5406-5409.
- Hollmann, Travis J., David L. Haviland, Jens Kildsgaard, Kirstin Watts, and Rick A. Wetsel. 1998. "[Cloning, Expression, Sequence Determination and Chromosome Localization of Mouse Complement C3a Anaphylatoxin Receptor Gene](#)." *Molecular Immunology* 35(3): 137-148.

## PRESENTATIONS

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| June 2015     | International Society for Stem Cell Research Annual Meeting, presented “Unproven Stem Cell Treatments and Re-evaluating the Role of the US FDA: Bringing the Lost and Desperate Back Home,” “Narratives of Research Integrity Among Biologists and Physicists in the UK and India” and “Umbilical Cord Blood Banking: Public Opinion and Awareness in Jordan” in poster session. |
| April 2015    | The 8 <sup>th</sup> International Conference on Ethics in Biology, Engineering and Medicine, presented “Narratives of Research Integrity: Biologists and Physicists in The UK and India”                                                                                                                                                                                         |
| February 2015 | Texas Medical Center 4 <sup>th</sup> Annual Presidential Career Symposium, “Science Policy” Panel Respondent                                                                                                                                                                                                                                                                     |
| February 2015 | The University of Texas at Austin, Graduate Professional Development Seminar Series, “Science Policy and the Role of Scientists in the Public Realm: From biologist to science policy scholar”                                                                                                                                                                                   |
| December 2014 | World Stem Cell Summit, Panel Discussant “Public Policy and Ethics-Challenges and Solutions”                                                                                                                                                                                                                                                                                     |
| November 2014 | “Driving Regenerative Medicine to the Clinic”, respondent “Unproven Stem Cell Treatments and Re-evaluating the US FDA Policies”                                                                                                                                                                                                                                                  |
| June 2014     | International Society for Stem Cell Research Annual Meeting, presented “How Should the National Football League Tackle Unproven Stem Cell Treatments?” in poster session.                                                                                                                                                                                                        |
| February 2014 | Texas Medical Center 3 <sup>rd</sup> Annual Presidential Career Symposium, “Science Policy” Panel Respondent                                                                                                                                                                                                                                                                     |
| June 2013     | International Society for Stem Cell Research Annual Meeting, presented “AMP v. Myriad Genetics: Genes Patents, Patenting Life and the Impact on US Stem Cell Research” and “More than Oil and Uprisings: Current Developments in Cord Blood Banking in the Arab World” in poster session.                                                                                        |
| June 2012     | International Society for Stem Cell Research Annual Meeting, presented “Can We Share Please: Transferring and Sharing Materials” in Ethics & Public Policy workshop.                                                                                                                                                                                                             |
| June 2012     | International Society for Stem Cell Research Annual Meeting, presented “Highlights and Themes from the Qatar International Conference in Stem Cell Science and Policy” in poster session.                                                                                                                                                                                        |
| June 2012     | International Society for Stem Cell Research Annual Meeting, presented “Defining ‘Research’ in the U.S. and EU: Contrast of Sherley and Greenpeace Rulings” in poster session.                                                                                                                                                                                                   |
| February 2012 | Baker Institute-Qatar Foundation “2012 Qatar Stem Cell Research and Policy Issues Conference” in Doha, Qatar, presented “International Stem Cell Policies.”                                                                                                                                                                                                                      |
| November 2011 | “Cultural Heritage 2.0: Participatory Stewardship” discussion, presented similarities between ownership rights in arts and genomics                                                                                                                                                                                                                                              |
| July 2011     | “Challenges and Solutions in Medicine in the 21st Century” conference, presented “Stem Cell Research and Regenerative Medicine: Current Hope and Future Benefits”                                                                                                                                                                                                                |

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| June 2011       | International Society for Stem Cell Research Annual Meeting, presented “International Stem Cell Collaborations: How Disparate Policies between the United States and the United Kingdom Impact Research” in poster session.                         |
| July 2010, 2009 | National Youth Leadership Forum on Medicine, presented “Stem Cell Research”                                                                                                                                                                         |
| June 2010       | International Society for Stem Cell Research Annual Meeting, presented “Stem Cell Research in the Greater Middle East: the Importance of Establishing Policy and Ethics Interoperability to Foster International Collaborations” in poster session. |
| March 2010      | The University of Texas LBJ School of Public Affairs, presented “Embryonic Stem Cell Research: Politics and Policy”                                                                                                                                 |
| March 2010      | Rice University, “Perspectives on Stem Cells,” spoke to class on stem cell policy                                                                                                                                                                   |
| February 2010   | Rice University, “Science at Risk,” spoke to class on public science and outreach                                                                                                                                                                   |
| September 2009  | Rice University, Professional Science Master’s Program Seminar Series, presented Baker Institute Science and Technology Policy Program overview                                                                                                     |
| July 2009       | International Society for Stem Cell Research Annual Meeting, presented “Stem Cell Research in the Middle East” in poster session.                                                                                                                   |
| July 2009       | Rice University, Department of Bioengineering Graduate Seminar Series, presented careers in policy                                                                                                                                                  |
| October 2008    | AAAS, Science Diplomacy and International Collaboration presented on Baker Institute and Rice University science diplomacy efforts                                                                                                                  |
| November 2007   | The University of Texas Health Science Center at Houston, Career Development Seminar                                                                                                                                                                |
| July 2006       | HEADS-UP Advance Genetics Teacher Summer Science Institute, presented U.S. stem cell policy                                                                                                                                                         |
| May 2006        | Leadership Houston, presented finding and recommendations from <i>Code Red: The Health of Texas</i>                                                                                                                                                 |
| March 2004      | Baylor College of Medicine, Career Day Symposium                                                                                                                                                                                                    |

## CONFERENCES AND EVENTS ORGANIZED

### **Conferences**

General S&T Topics: [Bridging the Gap Between Science and Society](#) (November 2003); [Improving Science and Math Education: Texas Confronts the Gathering Storm](#) (October 2007); [Norman Hackerman Memorial Symposium: The Corroding of America’s Infrastructure](#) (February 2008) [International Scientific Collaboration: American and Chinese Cultures](#) (April 2009); [“Exploring the Implications of Religion Among Scientists in the U.K. and India”](#) (September 2014);

Public Diplomacy and Global Policymaking in the 21<sup>st</sup> Century: [The 2012 Qatar Colloquium](#) (March 2012); [The 2013 Houston Colloquium](#) (March 2013); [The 2014 Doha Conference](#) (March 2014)

Stem Cell Policy: [Stem Cells: Saving Lives or Crossing Lines](#) ([November 2004](#), [March 2006](#), [October 2006](#), [March 2009](#), [September 2009](#), [February 2012](#));

Global Health Policy: [The Global Health Design Challenge Symposium: Integrated Technology Solutions to Advance Global Health](#) (April 2007) with Rice University’s Beyond Traditional Borders

Environment and Climate Change: [Beyond Science: The Economics and Politics of Climate Change](#) (February 2008); [Emerging U.S. Climate Policy: Trans-Atlantic Approaches and Market Harmonization](#) (December 2008); [Texas Coral Reefs: Today, Yesterday and Tomorrow](#) (August 2012)

## **Events**

General S&T Topics: [Scientific Integrity in the Bush Administration: A Conversation with Smalley and Lane](#) (April 2004); [Mock Congressional Hearing: Nanotechnology in Medicine](#) (February 2005); John Podesta, former chief of staff for President Clinton, "[U.S. Technology Policy: Striking a Balance Between Knowledge and Security](#)" (April 2005); Sally Ride, former Astronaut, "[Reaching for the Stars: Increasing the Role of Women in Science and Engineering](#)" (November 2005); [Evolution and Intelligent Design: To Teach or Not to Teach?](#) (March 2006); Chris Mooney, author, "[Unscientific America: How Scientific Illiteracy Threatens Our Future](#)" (February 2010); Elaine Howard Ecklund, author, "[Science vs. Religion: What Scientists Really Think](#)" (April 2010); Science, Diplomacy and International Cooperation (March 2011); Ann Morning, author, "[The Nature of Race: How Scientists Think and Teach About Human Difference](#)" (September 2011); Cathy N. Davidson, author "[Now you see it: How the brain science of attention will transform the way we live, work and learn](#)" (Feb 2012)

Stem Cell Policy: Stephen Minger, lecturer in stem cell biology, "[The New Consensus: How Scientists and Government Created New Embryo Legislation in the United Kingdom.](#)" (February 2009); [Charles Reed, Patenting Science: The Implications of the Embryonic Stem Cell Patent Battle](#) (a discussion panel with Charles Reed, February 2008); [Stem Cell Policy in the Obama Age](#) (September 2009); [The Fate of Embryonic Stem Cell Research: Examining the Legal Battle Behind the Science](#) (September 2010); Melinda Fagan, author, "[Knowledge in Flesh and Blood: Philosophy of Stem Cell Biology](#)" (September 2011); Sean Morrison, scientist, "[Creating Stem Cell Policy at the Interface of Science and Politics](#)" (September 2012); Deepak Srivastava, scientist, "[Stem Cells, Regenerative Medicine and Policy Impediments to the New Future](#)" (October 2014);

Health Policy: Mark McClellan breakfast lecture, "[The Future of U.S. Health Care](#)" (October 2007); Peter Hotez, Dean of the School of Tropical Medicine at Baylor College of Medicine, "[Innovation in the Control of the Neglected Tropical Diseases](#)" (October 2011); Timothy Caulfield, author and health policy scholar, "[When Celebrity Culture and Science Clash: The Twisting of Research and Health Policy](#)" (March 2015)

Environmental and Climate Change: [The Challenges of Communicating Climate Change](#) (March 2010); [Japan: The Aftermath](#) (April 2011); Julia Sling, chief scientist in UK's MET office, "[Society's Growing Vulnerability to Natural Hazards and Implications for Weather and Climate Research](#)" (February 2012); Andrew Dessler, scientist, "[The Alternative Reality of Climate Skepticism](#)" (October 2014)

Civic Scientists: Arden Bement, "[When the Jobs in the Nation Change, So Does the Job of the Scientist](#)" (November 2006); Shirley Ann Jackson, "[From Uncertainty to Opportunity: Creating a Comprehensive Energy Roadmap and the Human Capital to Make It Happen](#)" (November 2007); Bruce Alberts, "[Redefining Science Education and the Role that Scientists Play in Society](#)" (February 2009); [Robert Curl and Harry Kroto](#), (October 2010); Jane Lubchenco, "[Restoring Science to Its Rightful Place: Its Role in America's Future](#)" (December 2011); [David Baltimore and Alice Huang](#) (April 2012); [Subra Suresh](#) (November 2012); Sylvia Earle "[The Gulf of Mexico: Exploring and Caring for the Ocean that Unites Three Countries](#)" (February 2013); Rita Colwell "[Oceans, Climate and Health: Cholera as a Model of Infectious Diseases in a Changing Environment](#)" (March 2013); Neal Lane, John Mendelsohn and David Eagleman, "[Panel Session on Advancing Civic Science in America](#)" (April 2014); Peter Hotez and Robert Bazell, "[Influenza, SARS, Ebola and the Next Pandemic: Perceptions in the Media and Public](#)" (February 2015); Steven Chu and Norman Augustine "[Restoring the Foundation](#)"



Medicine, Research and Society Policy Issues Series: [Elias Zerhouni breakfast lecture, former director of the National Institute of Health](#) (December 2008); [The Impact of Comparative Effectiveness Research on the U.S. Health Care System](#) (February 2010); [Personalized Genomic Medicine: Genetics in Health Care](#) (December 2010); [Science and the Media](#) (April 2012); [The Use of Technology to Deliver Healthcare](#) (May 2014).; [HPV Vaccination: A Public Health Opportunity, A Public Responsibility](#) (December 2014)

## TEACHING AND RESEARCH EXPERIENCE

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|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 2013-present | Co-organized and taught BIO 547/447 (with Daniel Wagner) “Experimental Biology and the Future of Medicine,” spring semester                |
| 2011-present | Organized and taught NSCI 511 “Science Policy and Ethics,” spring semester                                                                 |
| 2012-2014    | Organized and taught UNIV 312 “Public Diplomacy and Global Policymaking in the 21st Century: Student Colloquium in Qatar,” spring semester |
| 2010         | Co-taught (with Elaine Howard Ecklund) SOCI 311 “Science at Risk: Out of the Lab and Into the Public Sphere,” fall semester                |
| 2004         | Co-organized (with Neal Lane and Kristen Kulinowski) course NSCI 511 “Science and Technology Policy,” spring semester                      |
| 2000         | Teaching assistant “Advanced Topics in Biochemistry and Molecular Biology”                                                                 |
| 1996-2003    | Graduate research assistant                                                                                                                |
| 1999-2001    | Mentored undergraduate student—trained undergraduate student Anne Reuter in laboratory techniques                                          |
| 1995         | Dow Chemical summer intern                                                                                                                 |
| 1994-1995    | Undergraduate research assistant, Dr. Jonathan Sessler, The University of Texas at Austin                                                  |

## CURRENT AND PAST STUDENTS

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|                       |                                           |
|-----------------------|-------------------------------------------|
| Katherine Wheat       | Summer 2004-2005, Spring 2006             |
| Inna Hussein          | Fall 2004                                 |
| Jason Lee             | Spring 2005                               |
| Noorain Khan          | Fall 2005-Spring 2006                     |
| Bhavika Kaul          | Fall 2006-Spring 2007                     |
| Bohang “Arthur” Zhang | Fall 2006-Spring 2007                     |
| Ezgi Alhun            | Summer 2006 (Graduate Intern)             |
| Jenny Kingsley        | Summer 2007-Spring 2008                   |
| Sarah Tamba           | Summer 2007-Fall 2007                     |
| Alexandria Meyer      | Summer 2007 (High School Intern)          |
| Jessica Carter        | Spring 2008                               |
| Jennifer Luo          | Summer 2008                               |
| Jesse M. Flynn        | Summer 2008-Summer 2010 (Graduate Intern) |
| Chris Choi            | Fall 2008 – Spring 2009                   |
| Alec Walker           | Fall 2008                                 |
| Kara Calhoun          | Fall 2008-Spring 2011                     |
| Mishal Thadani        | Summer 2009                               |
| Nathan Lo             | Summer 2009-Spring 2011                   |
| David Liou            | Fall 2009 – Spring 2010                   |
| Rachel Solnick        | Fall 2009 - Summer 2010                   |
| Maude Rowland         | Fall 2009 – Fall 2011 (Graduate Intern)   |

|                          |                                           |
|--------------------------|-------------------------------------------|
| Kenneth Evans            | Fall 2009 – Spring 2015 (Graduate Intern) |
| Rachel Chiu              | Spring 2011                               |
| Brent Carey              | Fall 2010 - Summer 2011 (Graduate Intern) |
| Padraig Moloney          | Fall 2010-Summer 2011 (Graduate Intern)   |
| Monica Matsumoto         | Summer 2011-Fall 2014                     |
| Devon Rule               | Summer 2011 – Spring 2013                 |
| David Kaplan             | Summer 2011 (High School Intern)          |
| Robin Soares             | Spring 2012                               |
| Meredith Jackson         | Summer 2012-Spring 2013                   |
| George Romar             | Summer 2012-Spring 2013                   |
| Rohini Sigireddi         | Summer 2013 – Spring 2014                 |
| Rishi Suresh             | Summer 2012 (High School Intern)          |
| Justin Chen              | Fall 2012 – Spring 2013                   |
| Andrew Treleaven         | Fall 2012 – Spring 2013                   |
| James “Hunter” Lockhart  | Spring 2013                               |
| Megan Weintraut          | Spring 2013                               |
| Melissa Lopez            | Summer 2013 – Fall 2013 (Graduate Intern) |
| Walter “Hust” Williamson | Fall 2013 – Spring 2014                   |
| Kelli Baalman            | Fall 2013 – Spring 2014 (Graduate Intern) |
| Jackie Olive             | Fall 2013 – present                       |
| Nikhil Shamapant         | Fall 2014 – present                       |
| Jon Flynn                | Summer 2014 – present (Graduate Intern)   |
| Sarah Dew                | Spring 2015                               |
| Erin Yang                | Spring 2015-present                       |
| Anita Alem               | Summer 2015-present                       |
| Amanda Goodman           | Summer 2015-present (Graduate Intern)     |
| Michelle Rubin           | Summer 2015-present (Graduate Intern)     |

## **CURRENT COLLABORATIONS**

“Medicine, Research and Society”—an annual event series, organized with and funded by The University of Texas MD Anderson Cancer Center

International Stem Cell Policy—Event planning with the Qatar Foundation

Center for Energy Studies—Event planning with Ken Medlock and staff

Center for Health and Bioscience Policy—research, publications and event planning with Vivian Ho, Peter Hotez, John Mendelsohn, Jennifer Herricks and staff

Civic Scientist Outreach—school visits in collaboration with Rice University’s School Science and Technology, executive director Carolyn Nichol

Scientists in International Context—A large international survey and interviews of scientists’ on social factors which impact their research including family, ethics and religious views and belief. Funded by Templeton World Charity Foundation, Religion among Scientists in International Context Study (TWCF0033/AB14), Elaine Howard Ecklund PI, Kirstin R. W. Matthews and Steven Lewis, Co-PIs and National Science Foundation (NSF), Ethics among Physicists in Cross-National Perspective Study (Grant # 1237737), Elaine Howard Ecklund PI, Kirstin R. W. Matthews and Steven Lewis, Co-PIs.