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CURRENT POSITIONS

Associate Professor of Science, Technology, and Society (with tenure), July 2012-present, Carnegie Mellon University, Department of History

Founder and Director, Center for Human Rights Science, January 2011-present, Carnegie Mellon University

PREVIOUS POSITIONS

Associate Professor of Science, Technology, and Society, July 2009-June 2012 (without tenure), Carnegie Mellon University, Department of History

Faculty Advisor, Ethics, History, and Public Policy major, September 2009-June 2015, Carnegie Mellon University

Assistant Professor of Science, Technology, and Society, August 2004-June 2009, Carnegie Mellon University, Department of History

Post-Doctoral Fellow, 2003-2004, Harvard University, Program on Science, Technology, and Society, Kennedy School of Government

EDUCATION

Ph.D. in History of Science and Technology, University of Minnesota (May 2004)
Thesis: *The Introduction, Contestation, and Regulation of Forensic DNA Analysis in the American Legal System, 1984-1994*

Pre-Doctoral Fellow, 2001-2003, Harvard University, Program on Science, Technology and Society, Kennedy School of Government

B.S. with High Honors in Biology, University of Michigan, Honors College (December 1995)
Thesis: *Testing Fragments of Genomic DNA Flanking 297 Transposable Element Insertions as Markers for QTL Mapping in *Drosophila melanogaster**

PUBLICATIONS

Single-Author Books

Who Owns the Dead? The Science and Politics of Death at Ground Zero (Cambridge: Harvard University Press, 2016)

Genetic Witness: Science, Law, and Controversy in the Making of DNA Profiling (New Brunswick, NJ: Rutgers University Press, 2007).

- Selected Reviews: *American Journal of Human Genetics*, *Choice*, *Journal of Chemical Education*, *Journal of High Technology Law*, *Nature Genetics*, *New York Law Journal*, *Social Studies of Science*, and *The Journal of Criminal Law and Criminology*.

Edited Volumes

Taylor B. Seybolt, Jay D. Aronson, and Baruch Fischhoff, *Counting Civilian Casualties: An Introduction to Recording and Estimating Nonmilitary Deaths in Conflict* (Oxford University Press, 2013).

Molly Land and Jay D. Aronson, *Human Rights and New Technologies: Power, Participation and Peril* (under contract with Cambridge University Press, publication expected late 2017).

Peer-Reviewed and Law Review Articles

Alex John London, Lisa S. Parker and Jay D. Aronson, "DNA Identification After Conflict or Disaster," *Science*, 2013, 341: 1178-1179.

Lisa S. Parker, Alex John London and Jay D. Aronson, "Incidental findings in the use of DNA to identify human remains: An ethical assessment," *Forensic Science International: Genetics*, 2013, 7: 221-229.

"The Strengths and Limitations of South Africa's Search for Apartheid-Era Missing Persons," *International Journal of Transitional Justice*, 2011, 5(2): 262-281.

Jay D. Aronson and Simon A. Cole, "Science and the Death Penalty: DNA, Innocence, and the Debate over Capital Punishment in the United States," *Law and Social Inquiry*, 2009, 34(3): 603-633.

- Received Honorable Mention in the Law and Society Association's 2011 Article Prize Competition

"Neuroscience and Juvenile Justice," *Akron Law Review*, 2009, 42: 917-930.

"Creating the Network and the Actors: The FBI's Role in the Standardization of Forensic DNA Profiling," *Biosocieties*, 2008, 3(2): 195-215.

"Brain Imaging, Culpability, and the Juvenile Death Penalty," *Psychology, Public Policy, and Law*, 2007, 13(2): 115-142.

“The ‘Starch Wars’ and the Early History of DNA Profiling,” *Forensic Science Review*, 2006, 18(1): 59-72.

“DNA fingerprinting on trial: the dramatic early history of a new forensic technique,” *Endeavour*, 2005, 29(3): 126-131.

“Molecules and Monkeys: George Gaylord Simpson and the Challenge of Molecular Evolution,” *History and Philosophy of the Life Sciences*, 2002, 24: 441-465.

Book Chapters

“Mobile Phones, Social Media, and Big Data in Human Rights Fact Finding: Possibilities, Challenges, and Limitations,” in Philip Alston and Sarah Knuckey, *The Transformation of Human Rights Fact-Finding* (Oxford University Press, 2015), pp. 441-461.

Taylor B. Seybolt, Jay D. Aronson, and Baruch Fischhoff, “Introduction,” in Taylor B. Seybolt, Jay D. Aronson, and Baruch Fischhoff, *Counting Civilian Casualties: An Introduction to Recording and Estimating Nonmilitary Deaths in Conflict* (Oxford University Press, 2013), pp. 3-13.

“The Politics of Civilian Casualty Counts,” in Taylor B. Seybolt, Jay D. Aronson, and Baruch Fischhoff, *Counting Civilian Casualties: An Introduction to Recording and Estimating Nonmilitary Deaths in Conflict* (Oxford University Press, 2013), pp. 29-50.

Jay D. Aronson, Baruch Fischhoff, and Taylor B. Seybolt, “Moving toward More Accurate Casualty Counts,” in Taylor B. Seybolt, Jay D. Aronson, and Baruch Fischhoff, *Counting Civilian Casualties: An Introduction to Recording and Estimating Nonmilitary Deaths in Conflict* (Oxford University Press, 2013), pp. 285-298.

“Humanitarian DNA Identification in Post-Apartheid South Africa,” in Keith Wailoo, et al. (eds), *Genetics and the Unsettled Past* (Rutgers University Press, 2012), pp. 295-312.

“Certainty v. Finality: Constitutional Rights to Post-Conviction DNA Testing,” in Sheila Jasanoff (ed.) *Reframing Rights: Bio-Constitutionalism in the Genetic Age* (MIT Press, 2011), pp. 125-146.

“On Trial! Governing Forensic DNA Technologies in the United States,” in Richard Hindmarsh and Barbara Prainsack (eds.), *DNA Profiling and Databasing: Governing the Challenges of New Technologies* (Cambridge University Press, 2010), pp. 240-261.

Simon A. Cole and Jay D. Aronson, “Blinded by Science on the Road to Abolition?,” in Austin Sarat and Charles Ogletree (eds.), *The Road to Abolition* (NYU Press, 2009), pp. 46-71.

Invited Publications

“Challenging Impunity with User Generated Content,” *International Justice Monitor*, June 1, 2015, <http://www.ijmonitor.org/2015/06/challenging-impunity-with-user-generated-content/>.

Barbara Prainsack and Jay D. Aronson, “Forensic DNA Databases: Ethical Issues,” *International Encyclopedia of the Social and Behavioral Sciences*, 2015, 9: 339-345.

“Law’s Use of Neuroscience,” *Annual Review of Law and Social Science*, 2010, 6: 7.1-7.16.

Op-Eds and other Commentary

“15 years of mourning, memorializing and rebuilding after 9/11: What went wrong,” *New York Daily News*, <http://www.nydailynews.com/opinion/jay-aronson-assessing-15-years-memorializing-9-11-article-1.2785057> (Published September 11, 2016).

“After 15 years, the political power of the 9/11 victims endures,” *Washington Post*, <https://www.washingtonpost.com/news/monkey-cage/wp/2016/09/11/the-political-power-of-the-dead-in-the-long-wake-of-911/> (Published September 11, 2016).

Megan Price, Anita Gohdes, Jay Aronson, and Christopher McNaboe, “Civilian deaths from weapons used in the Syrian conflict,” *British Medical Journal*, 2015; 351 doi: <http://dx.doi.org/10.1136/bmj.h4736> (Published September, 29 2015).

Brian Primack, Jay D. Aronson, and Aaron A. Agarwal, “An Old Custom, a New Threat to Tobacco Control,” *American Journal of Public Health*, 2006, 96: 1339.

Book Reviews and Other Publications

Review of Sarah Wagner, *To Know Where He Lies: DNA Technology and the Search for Srebrenica’s Missing*, in *Nature Genetics*, 2009, 41 (3): 267.

Review of Philip Kitcher, *Science, Truth, and Democracy* and Daniel Kleinman (ed.), *Science, Technology, and Democracy*, in *Science, Technology and Human Values*, 2003, 28(1): 162-168.

Review of Francois Jacob, *Of Flies Mice and Men*, in *Journal of the History of Biology*, 2001, 34: 611-612.

PRESENTATIONS

“Who Owns the Dead? The Recovery, Identification, and Memorialization of Sept. 11 World Trade Center Victims” (Memory Survives: History, Psychology, and Disaster Recovery Workshop, Drexel University, September 2016)

“Developing a long-term, collaborative research agenda (and funding model) for statistics and human rights” (“Quantitative Data and Human Rights Conference, Duke University, May 2016)

“Commentary on Human Rights and Technology” (MIT Starr Forum, April 2016)

“Beyond Documentation: What Is the role of tech in advancing economic and social rights?” (RightsCon, San Francisco, CA, March 2016)

“The Utility of User Generated Content in Human Rights Investigations” (Yale Law School, November 2015)

“The Probative Value of User Generated Content in Human Rights Investigations” (Workshop on Human Rights and New Technologies, University of Connecticut, October 2015)

Demonstration of Video Forensics Tools for Human Rights Fact-Finding (Office of the Prosecutor, International Criminal Court, The Hague, June 2015)

“Authenticating User Generated Content in Human Rights Justice and Accountability Contexts,” (RightsCon Southeast Asia, Manila, Philippines, March 2015).

“Crowd-training Machine Learning Systems for Human Rights Abuse Documentation” (HCOMP 2014 Workshop on Volunteer-Based Crowdsourcing in Science, Public Health and Government, Pittsburgh, PA, November 2014).

“Technology for Truth” Spark Talk (Workshop: Ethics of Data in Civil Society, Stanford University, September 2014).

Commentary on Partnerships Between Academic Researchers and Human Rights Advocates (Joint Statistical Meetings, Boston, MA, August 2014).

Briefing on Video Forensics for Human Rights Fact-Finding (Office of the Prosecutor, International Criminal Court, The Hague, June 2014).

“Identifying South Africa's Missing Anti-Apartheid Activists” (Workshop: The Claims of Descent: Science, Representation, Race and Redress in 21st Century South Africa, Halle, Germany, June 2014)

“Social Media as Evidence in Human Rights Litigation” (American Society of International Law, Washington, DC, April 2014)

“Video Forensics: Extracting and Analyzing Information from Video About Human Rights, Conflict, and Disaster” (Vision and Autonomous Systems Center Seminar, Robotics Institute, Carnegie Mellon University, April 2014)

“Mobile Phones, Social Media, and Big Data in Human Rights Fact-Finding: Possibilities, Challenges, and Limitations” (International Human Rights Fact-Finding in the Twenty-First Century, New York University School of Law, November 2013)

“Equity and the Future of the Identification of the Missing” (The Missing: An Agenda for the Future, The Hague Academy of Law, October 2013)

“DNA Identification after Conflict and Disaster: An Overview” (DNA, Human Rights, and Human Trafficking Workshop, Duke University, September 2013)

“Ethics in DVI Operations” (Disaster, Displacement, and Human Rights Workshop, University of Tennessee, February 2013)

“Ethics in DVI Operations” (Naming the Dead: Social, Legal and Political Issues of Disaster Victim Identification by DNA workshop, Geneva, Switzerland, December 2012; presented with Andreas Kleiser of the International Commission on Missing Persons)

“Disaster Inquiries and Technologies of Repair” (American Anthropological Association Annual Meeting, Montreal, Quebec, November 2011)

“The 9/11 Memorial and the Identification of World Trade Center Victims” (University of North Carolina—Greensboro, September 2011)

Panelist in a session on Careers in Science and Technology Studies (STS: The Next Twenty, Conversations Within and Beyond the Field, Harvard University, April 2011)

“Are Disaster Inquiries a Useful Model for Truth Commissions?” (University of Wisconsin, January 2011)

“Ethical Dimensions of Post-Conflict and Post-Disaster DNA Identification of the Missing” (University of Pittsburgh Department of Human Genetics, September 2010)

“Combating Official Ignorance: Counting Casualties in Iraq” (Science and Democracy Network Annual Meeting, Royal Society, London, England, June 2010)

“Neuroscience and Decision Making” (Law and Biosciences Workshop, Vanderbilt University School of Law, March 2010)

“The Ethics of Post-Conflict DNA Identification” (University of Pittsburgh School of Medicine Medical Research Scientist Training Program Ethics Seminar, December 2009)

“Truth Commissions: Technologies of Repair or Social Autopsies?” (Harvard University, November 2009)

“The Limits of Repair in Post-Apartheid South Africa” (Society for the Social Studies of Science Annual Meeting, Washington, DC, October 2009)

“Humanitarian DNA Identification in Post-Apartheid South Africa” (variations of this talk were given at University of Cape Town, Stellenbosch University, University of Witwatersrand, and Mamelodi Community Center during my August 2009 visit to South Africa)

“The Development of DNA Profiling in the American Legal System” (Villanova Law School, January 2009)

“Brain Imaging, Culpability, and the Juvenile Death Penalty” (Neuroscience, Law, and Government Symposium, University of Akron Law School, September 2008)

“DNA Identification in Post-Apartheid South Africa” (DNA, Race, and History Meeting, Rutgers University Center for Race and Ethnicity, April 2008)

“The ‘DNA Wars’: Science, Law, and Controversy in the Making of DNA Profiling” (John Jay College of Criminal Justice, CUNY, April 2008)

“Blinded by Science on the Road to Abolition?” (workshop on the possibility of the abolition of the death penalty, Harvard Law School, February 2008)

“DNA Identification in the Aftermath of Genocide and Mass Violence” (Arizona State University, Tempe, November 2007)

“DNA Identification in Post-Apartheid South Africa” (American Anthropological Association Annual Meeting, Washington, DC, November 2007)

“Technologies of Truth: The Production of Knowledge in the South African Truth and Reconciliation Commission” (Science and Democracy Network Annual Meeting, Cambridge, England, June 2007)

“Post Conviction DNA Testing in the American Criminal Justice System” (International Society for the History, Philosophy, and Social Studies of Biology Biennial Meeting, Guelph, Ontario, July 2005)

“The Biology of Culpability: Science, Democracy and the Death Penalty” (Science and Democracy Network Annual Meeting, Cambridge, MA, June 2005).

“The Sciences and Expertise” (Humanities and Expertise: An Interdisciplinary Conference, Pittsburgh, PA, April 2005)

“What the History of Forensic DNA Analysis Can Tell Us About the Relationship Between Science and Law” (Chemical Heritage Foundation, Philadelphia, April 2004)

“Expertise in the Governance and Regulation of Genomic Research” (CESAGEN Conference, London, March 2004)

“The Development and Contestation of Forensic DNA Analysis in the American and British Legal Systems” (University of Durham [England], Department of Sociology and Social Policy, September 2003)

“Protein Sequence and Primate Systematics: G.G. Simpson Reacts to the Molecularization of Evolutionary Biology” (ISHPSSB, July 1999)

“Sibling Rivalry: Organismic Biologists React to the New Science of Molecular Biology” (Mephistos, September 1998)

FELLOWSHIPS, AWARDS AND HONORS

Humanity United, 2014-2017, “Video Forensics for Human Rights and Accountability” (\$200,000 over 12 months through the Center for Human Rights Science, plus \$175,000 renewal)

MacArthur Foundation, 2015-2018, “General Support for the Center for Human Rights Science” (\$600,000 over 36 months for the Center’s activities)

Oak Foundation, 2015-2017, “General Support for the Center for Human Rights Science” (\$200,000 over 24 months for the Center’s activities)

Humanity United, 2014, "Workshop: Video Forensics in Human Rights Abuse and War Crimes Investigations (Technology, Law and Ethics)" (\$10,000 for August 2014 Workshop; through Center for Human Rights Science)

MacArthur Foundation, 2013-2014, "Evaluating Machine Learning Methods and Tools for Use in Human Rights Work" (\$175,000 over 18 months; through the Center for Human Rights Science)

National Institutes of Health, 2011-2014, R01 HG005702-01, "The Ethics of Post-Conflict and Post-Disaster DNA Identification" (PI, with co-PI Sarah Wagner and co-I Alex John London, \$1,201,086)

National Science Foundation, 2009-2010, SES0922638, "Scientific Conference on Casualty Recording and Estimation" (co-PI, with PI Baruch Fischhoff, \$69,068)

National Institutes of Health, 2008-2010, R03 HG004655-01, "DNA Identification in the Aftermath of Genocide and Mass Violence" (PI, \$154,500)

Kauffman Initiative, 2007, at Carnegie Mellon University to modify 15-502 "Technology and Global Development" for inclusion in the new minor on Innovation, Entrepreneurship, and Economic Development (with Rahul Tongia) (\$10,000)

Carnegie Mellon University, 2005-2008, "Globalizing Our Education" Faculty Grant Program for "Technology for Global Development" (with Bernardine Dias, Joe Mertz, and Rahul Tongia) \$15,000 for three years (\$45,000 total, split four ways)

National Endowment for the Humanities, Stipend for Participation in Summer Institute on "Human Rights in Conflict: Interdisciplinary Perspectives," June 26-July 28, 2006, City University of New York—Graduate Center

Berkman Faculty Development Fund Grant, May 2005; Carnegie Mellon University, "DNA Identification in War Crimes and Genocide Investigations in the Former Yugoslavia" (\$7500)

Falk Fund Research Grant, May 2005, Carnegie Mellon University, "Science and Human Rights in South Africa" (\$3900)

Post-Doctoral Fellowship, 2003-2004, National Science Foundation Training Grant, "Reframing Rights: The Constitutional Implications of Technological Change;" Harvard University, Program on Science, Technology and Society, Kennedy School of Government
Short-Term Visiting Scholar Grant, Economic and Social Research Council (UK) Science in Society Programme (Two Awards: August 2003 and March 2004)

National Science Foundation Dissertation Improvement Grant, 2003-2004, SES #0240482.

Doctoral Dissertation Fellowship, 2002-2003, University of Minnesota

Consortium Student Scholar and Grant Recipient, 2001-2002, University of Minnesota Consortium on Law and Values in Health, Environment and the Life Sciences

Graduate School Fellowship, 1998-2001 (multi-year fellowship awarded to top candidates), University of Minnesota

PROFESSIONAL ACTIVITIES

Organizer, Workshop on “Human Rights Media Central,” Carnegie Mellon University, July 2015.

Organizer, Workshop on “Video Forensics for Human Rights Documentation,” Carnegie Mellon University, August 2014.

Member, American Association for the Advancement of Science (AAAS) Committee on Scientific Freedom and Responsibility (initial term: 2012-2015; reappointed through 2018)

Member, Ford Institute for Human Security Advisory Group, University of Pittsburgh

Organizer, Workshop on “The Ethics of Post-Conflict and Post-Disaster DNA Identification,” Carnegie Mellon University, September 2011

Co-Organizer, Workshop on “Computer Science and Human Rights,” Carnegie Mellon University, October 2010

Co-Organizer, Conference on “Casualty Recording and Estimation in Times of Conflict,” Carnegie Mellon University, October 2009

Co-Organizer, Humanities Center Faculty Research Colloquium Series, “Global Connections, Global Responsibilities,” 2009-2010 academic year

CONSULTANCIES

Technology Advisory Board, International Criminal Court Office of the Prosecutor, March 2015-present

Advisory Panel for Revision of the UN Manual on the Effective Prevention and Investigation of Extralegal, Arbitrary, and Summary Execution, UN Special Rapporteur on Extra-judicial, Summary or Arbitrary Executions, March 2015-present

Consultant, Capital Habeas Unit, Federal Community Defender for the Eastern District of Pennsylvania, April 2009-December 2009

Consultant (Political Process Documentation), UNICEF—India and Governments of Bihar and Jharkhand, India, June-July 2004

Consultant, American Society of Law Medicine and Ethics, “DNA Forensics and Civil Liberties,” January-May 2004

REFERENCES

Available upon request.

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