

Dale A. Nance

Albert J. Weatherhead III & Richard W. Weatherhead
Professor of Law and Criminal Justice

Case Western Reserve University School of Law
11075 East Boulevard
Cleveland, Ohio 44106-7148

TEL: (216) 368-3294
EMAIL: dale.nance@case.edu
FAX: (216) 368-2086

Academic Appointments

Case Western Reserve University School of Law: Professor, 2002-present; John Homer Kapp Professor, 2009-2018; Vice Dean, April 2012 - May 2014
Chicago-Kent College of Law, Illinois Institute of Technology: Associate Dean for Program Development, 2002; Professor, 1992-2002; Associate Professor, 1989-1992
Cornell Law School: Visiting Professor, 1997
University of San Diego School of Law: Visiting Associate Professor, 1986-1987
University of Colorado School of Law: Visiting Assistant Professor, Summer 1986
Northern Illinois University College of Law: Associate Professor, 1986-1989; Assistant Professor, 1982-1986

Courses Taught

Evidence

Advanced Evidence Courses (Expert Testimony in Civil Cases; Famous American Trials Seminar; Forensics Theory; Social Science in Litigation; Burdens of Proof)
Jurisprudence (Introduction to Legal Theory; Justice and the American Legal System; Essential Legal Theory)

Conflict of Laws (Private International Law)

Property

The Law of Archeological Relics

Seminar on Probability in Modern Thought (Undergraduate)

Seminar on Stereotypes and Decision-making (Undergraduate)

Scholarship

Books:

- AFFIRMATIVE OBLIGATIONS IN THE ADMISSION OF EVIDENCE, rewriting of J.H. WIGMORE, EVIDENCE IN TRIALS AT COMMON LAW, Vol. IV & VII (3d ed. 1940; Chadbourn rev. 1977), Aspen Publishing Co., (in progress)
- EVIDENCE LAW: A STUDENT'S GUIDE TO THE LAW OF EVIDENCE AS APPLIED IN AMERICAN TRIALS (with Roger Park, Aviva Orenstein, and Steven Goldberg), Fourth Edition
(West Hornbook Series, 2018)

- **THE BURDENS OF PROOF: DISCRIMINATORY POWER, KEYNESIAN WEIGHT, AND TENACITY OF BELIEF**
(Cambridge University Press, 2016)
- **MEDICAL INJUSTICE: THE CASE AGAINST HEALTH COURTS** (with Maxwell J. Mehlman)
(American Association for Justice, 2007)
- **LAW AND JUSTICE: CASES AND READINGS ON THE AMERICAN LEGAL SYSTEM, Second Edition**
(Carolina Academic Press, 1999), with Teacher's Manual
- **LAW AND JUSTICE: CASES AND READINGS ON THE AMERICAN LEGAL SYSTEM,**
(Carolina Academic Press, 1994), with Teacher's Manual

Articles and Book Chapters:

- *Weight of Evidence*,
in **PHILOSOPHICAL FOUNDATIONS OF EVIDENCE LAW** (Oxford University Press, forthcoming)
- *Choice of Law Regarding Burdens of Proof*,
46 North Carolina Journal of International Law (forthcoming)
- *Burdens of Proof and Choice of Law* ,
PROCEEDINGS OF THE WORLD CONFERENCE ON EVIDENCE AND PROOF, University of Girona, Spain (anticipated, 2019)
- *The Limitations of Relative Plausibility Theory*,
23 The International Journal of Evidence and Proof 154 (2019)
- *Belief Functions and Burdens of Proof*
18 Law, Probability & Risk 53 (2019)
- *Paul Giannelli: Scholar, Colleague, and Friend*,
68:3 Case W. Res. L. Rev. 697 (2018)
- *Craig Callen on the Burden of Proof*,
48:4 Seton Hall L. Rev. 1569 (2018)
- *Formalism and Potential Surprise: Theorizing About Standards of Proof*,
48:4 Seton Hall L. Rev. 1017 (2018)

- *Truth, Justification, and Knowledge in the Epistemology of Adjudication*,
Proceedings of the “International Conference on Facts and Evidence: A Dialogue Between Philosophy and Law,” (China University of Political Science and Law, 2018)
- *Adverse Inferences About Adverse Inferences: Restructuring Juridical Roles for Responding to Evidence Tampering by Parties to Litigation*,
90:3 B.U. L. Rev. 1089 (2010)
- *Evidentiary Foul Play: The Roles of Judge and Jury in Responding to Evidence Tampering*,
7:1 Int’l Comment. on Evidence art. 5 (2009)
- *The Weights of Evidence*,
5:3 Episteme: A Journal of Social Epistemology 267 (2008)
- *Juries and Experts: Some Recent Data from Medical Malpractice Litigation*,
Fall/Winter 2008 AALS Evidence Section News 3; reprinted, with modifications, at
42:3 Int’l Society of Barristers Quarterly 421 (2007)
- *The Inferential Arrow: A Comment on Interdisciplinary Conversation*,
6 Law, Probability, & Risk 87 (2007)
- *Allocating the Risk of Error: Its Role in the Theory of Evidence Law* (reviewing Alex Stein’s
THE FOUNDATIONS OF EVIDENCE LAW (2005)),
13:2 Legal Theory 129 (2007)
- *The Reference Class Problem and Mathematical Models of Inference*,
11:4 Int’l J. of Evidence & Proof 259 (2007)
- *Rules, Standards, and the Internal Point of View*,
75:3 Fordham L. Rev. 1287 (2006)
- *The Wisdom of Dallas County*,
in EVIDENCE STORIES (Richard O. Lempert, ed.) (Foundation Press, 2006)
- *Juror Understanding of DNA Evidence: An Empirical Assessment of Presentation Formats for Trace Evidence with a Relatively Small and Quantifiable Random Match Probability*
(with Scott B. Morris),
34:2 J. Legal Stud. 395 (2005)
- *Rethinking Confrontation After Crawford*,
2:1 Int’l Comment. on Evidence (2004),
<http://www.bepress.com/ice/default/vol2/iss1/art2>

- *Crawford and Confrontation: Toward a Focus on Governmental Abuse*,
Summer 2004 AALS Evidence Section Newsletter 5
- *Two Concepts of Reliability*,
3:1 American Philosophical Society Newsletter on Law & Philosophy 123 (2003),
reprinted in *The Journal of Philosophy, Science, and Law*, vol. 5 (May 2005), available
at <http://www.psljournal.com>
- *Reliability and the Admissibility of Experts*,
34:1 Seton Hall L. Rev. 191 (2003)
- *Expert Testimony on Fingerprints: An Internet Exchange* (with Richard Friedman, David
Kaye, Jennifer Mnookin, and Michael Saks),
43:1 Jurimetrics J. 91 (2002)
- *An Empirical Assessment of Presentation Formats for Trace Evidence with a Relatively
Large and Quantifiable Random Match Probability* (with Scott B. Morris),
42:4 Jurimetrics J. 403 (2002) – winner of Loevinger Prize for 2002
- *Comment on the Age Discrimination Example*,
42:3 Jurimetrics J. 341 (2002) (Symposium: “Teaching Statistics to Judges”)
- *Naturalized Epistemology and the Critique of Evidence Theory*,
87 Va. L. Rev. 1551 (2001), excerpted in J. WALTZ, R. PARK, AND R. FRIEDMAN,
EVIDENCE (11th ed. 2009)
- *Evidential Completeness and the Burden of Proof*,
49:3 Hastings L.J. 621 (1998)
- *Guidance Rules and Enforcement Rules: A Better View of the Cathedral*,
83:5 Va. L. Rev. 837 (1997)
- *Verbal Completeness and Exclusionary Rules Under the Federal Rules of Evidence*,
75:1 Tex. L. Rev. 51 (1996)
- *Conditional Probative Value and the Reconstruction of the Federal Rules of Evidence*,
94:2 Mich. L. Rev. 419 (1995)
- *A Theory of Verbal Completeness*,
80:4 Iowa L. Rev. 825 (1995)

- *Foreword: Do We Really Want to Know the Defendant?*,
70:1 Chi.-Kent L. Rev. 3 (1994)
- *Civility and the Burden of Proof*,
17:3 Harv. J.L. & Pub. Pol'y 647 (1994)
- *Understanding Responses to Hearsay: An Extension of the Comparative Analysis*,
76:3 Minn. L. Rev. 459 (1992)
- *Missing Evidence*,
13:2-3 Cardozo L. Rev. 831 (1991)
- *Hear No Evil, See No Evil: On Professor Nesson's Claims About Evidence Suppression*,
13:2-3 Cardozo L. Rev. 809 (1991)
- *Conditional Relevance Reinterpreted*,
70:3 B.U. L. Rev. 447 (1990), excerpted in AN EVIDENCE ANTHOLOGY (Imwinkelried & Weissenberger eds., Anderson 1996) and in E. GREEN, C. NESSON, & P. MURRAY, PROBLEMS, CASES, AND MATERIALS ON EVIDENCE (3d. ed. 2000)
- *Owning Ideas*,
13:3 Harv. J.L. & Pub. Pol'y 757 (1990)
- *The Best Evidence Principle*,
73:2 Iowa L. Rev. 227 (1988), excerpted in AN EVIDENCE ANTHOLOGY (Imwinkelried & Weissenberger eds., Anderson 1996)
- *A Comment on the Supposed Paradoxes of a Mathematical Interpretation of the Logic of Trials*,
66:3-4 B.U. L. Rev. 947 (1986), reprinted in J.S. COVINGTON, THE STRUCTURE OF LEGAL ARGUMENT AND PROOF 300 (1993)
- *Legal Theory and the Pivotal Role of the Concept of Coercion*,
57:1 U. Colo. L. Rev. 1 (1985)
- *Costs, Attorney's Fees, and Interest* (with Steven E. Kirby),
2 CALIFORNIA CIVIL PROCEDURE AT TRIAL ch. 22 (1984)
- Review of PRIVATE PROPERTY AND THE CONSTITUTION, by Bruce Ackerman,
16 Wake Forest L. Rev. 875 (1980)
- Review of THE MORALITY OF CONSENT, by Alexander Bickel,
3 Law & Liberty (Winter 1977)

Awards:

- 2018 Case Western Reserve University Faculty Distinguished Research Award
- 2002 Loevinger Prize (Jurimetrics Journal)

Presentations

- “Choice of Law for Burdens of Proof,” faculty colloquium, CWRU School of Law, Sept. 25, 2019
- “Comments,” comments on papers by Mark Spottswood (“Towards a Continuous Burden of Proof”) and Michael Pardo (“What Grounds Legal Proof?”); Summer Evidence Workshop, Vanderbilt University Law School, May 24, 2019
- “Burdens of Proof and Choice of Law,” World Conference on Evidence and Proof, University of Girona, Spain, June 8, 2018
- “Belief Functions and Burdens of Proof: Competing Views,” Evidence Theory Workshop, University of Girona, Spain, June 5, 2018
- “Formalism and Potential Surprise: Theorizing About Standards of Proof,” conference on “Experts, Inference, and Innocence,” Seton Hall University School of Law, Oct. 27-28, 2017
- “Prejudice in Jury Deliberations: Peña-Rodriguez v. Colorado,” talk for Senior Scholars Series through the Laura & Alvin Siegal Lifelong Learning Program, Beachwood, Ohio, Sept. 20, 2017
- Moderator, Panel on Repatriation of Cultural Properties, Conference on The Art of International Law, Case Western Reserve University, Sept. 16, 2016
- “Truth, Justification, and Knowledge in the Epistemology of Trials,” Speech for “International Conference on Facts and Evidence: A Dialogue Between Philosophy and Law,” East China Normal University, Shanghai, China, May 28-29, 2016
- “*Roberts* and *Crawford*: Two Sides of the Same (Bad) Coin,” Ohio Continuing Legal Education, sponsored by the Cuyahoga County Prosecutor’s Office, Cleveland, Ohio, March 4, 2016
- “*Roberts* and *Crawford*: Two Sides of the Same (Bad) Coin,” Northeast Ohio Faculty Colloquium, Oct. 30, 2015
- “*Daubert*’s Reliability Requirement: Why It is Meaningless and How to Fix It,” Calfee, Halter & Griswold LLP, Cleveland, Ohio (CWRU Faculty Speakers Bureau Program), July 16, 2015
- “Considering Evidential Weight in the Design of Procedures for Litigation,” conference on “The Foundations of Evidence Law and their Implications for Developing Countries,” Northwestern University School of Law, Nov. 22, 2014

- “Law and Archeology” – guest lecture for history course on Museums in Global Perspective, Case Western Reserve University, November 5, 2014
- “The Weights of Evidence: Rhapsody on a Theme of John Maynard Keynes” – faculty colloquium, Duquesne University School of Law, November 17, 2011
- “The Elusive Concept of Evidential Weight” – Faculty Roundtable, SMU School of Law, January 25, 2010, Dallas, Texas.
- “Truth, Trials, and Side-Constraints” – conference on “Proof and Truth in the Law” at the Institute for Philosophical Research, National Autonomous University of Mexico, Mexico City, Sept. 4, 2009
- “Evidentiary Foul Play: The Roles of Judge and Jury in Addressing Litigative Misconduct” – Section on Evidence, AALS Annual Meeting, San Diego, California, Jan. 9, 2009
- “The Weights of Evidence” – faculty workshop, Case Western Reserve University School of Law, Sept. 26, 2008
- “The Weights of Evidence” – conference on Evidence and Law, Dartmouth College, June 20, 2008
- “Advanced Evidence Courses and Seminars” – co-chair of panel discussion, AALS Evidence Conference, Cleveland, Ohio, June 4, 2008
- “Juror Understanding of Random Match Probabilities” – AALS Evidence Conference, Cleveland, Ohio, June 5, 2008
- “Medical Malpractice Liability: Is the Sky Really Falling?” – Public Forum on “Patient Safety & Reducing Medical Errors: Exploring Options,” sponsored by Common Good and the Wyoming Healthcare Commission, Cheyenne, Wyoming, Oct. 15, 2007
- “The Case Against Health Courts” – briefing of Congressional staffers interested in medical malpractice reform, Washington, D.C., Sept. 28, 2007
- “Juror Understanding of DNA Random Match Probabilities” – conference on “The Science of DNA Profiling: An Expert Forum,” sponsored by Wayne State University and the Forensic Bioinformatics Co., Dayton, Ohio, Aug. 19, 2007
- “The ‘Famous American Trials’ Seminar: Reflections on Three Hundred Years of Evolution in Evidentiary Practices” – Barristers Golden Circle Reunion, Case Western Reserve University School of Law, June 2, 2007
- “Juror Understanding of Random Match Probabilities” – faculty workshop, Florida State University College of Law, October 30, 2006
- “Rules, Standards, and the Internal Point of View” – Fordham University School of Law conference on The Internal Point of View in Law and Ethics, Feb. 9, 2006

- “The Wisdom of *Dallas County*” – faculty workshop, Case Western Reserve University School of Law, Sept 16, 2005
- “The Jury and the Evidentiary Process” – Geauga County Free Speech Forum, April 29, 2005
- “Rethinking Confrontation After *Crawford*” – faculty workshop, Case Western Reserve University School of Law, Mar. 29, 2005
- “Historians as Expert Witnesses: Admissibility Battles on the Horizon?” – AALS Annual Meeting, Section on Legal History, San Francisco, Jan. 7, 2005
- “The Jury and DNA Evidence” – faculty workshop, Case Western Reserve University School of Law, Nov. 4, 2003
- “The Jury and DNA Evidence” – the Fifth Annual Canadian Symposium on Forensic DNA Evidence, Osgoode Hall Law School, York University, Nov. 1, 2003
- “Reliability and the Admissibility of Experts” – conference on Expert Admissibility: Keeping Gates, Goals, and Promises, Seton Hall University School of Law, Feb. 22, 2003
- “Reliability and the Admissibility of Experts” – faculty workshop, Case Western Reserve University School of Law, Nov. 19, 2002
- “An Empirical Assessment of Presentation Formats for Trace Evidence with a Small, Quantifiable Random Match Probability” – AALS Conference on Evidence, June 3, 2002
- “An Empirical Assessment of Presentation Formats for Trace Evidence with a Small, Quantifiable Random Match Probability” – faculty workshop, Case Western Reserve University School of Law, Dec. 10, 2001
- “Bayesian Assessment of Presentation Formats for Trace Evidence with a Quantifiable Random Match Probability” – National Conference on Science and the Law, Miami, October 5, 2001
- “Naturalized Epistemology and the Critique of Evidence Theory,” – John M. Olin Conference on the Law and Economics of Evidence, University of Virginia, Feb. 23, 2001
- “Bayesian Rationality and Jury Decision-Making: An Experiment on the Use of DNA Evidence at Trial” – faculty workshop, University of Missouri-Columbia, Oct. 16, 2000
- “Bayesian Rationality and Jury Decision-Making: An Experiment on the Use of DNA Evidence at Trial” – Canadian Law & Economics Association, University of Toronto, Sept. 22, 2000
- “Interpreting DNA Match Evidence” – League of Women Voters, Highland Park, Illinois, Feb. 26, 2000
- “Bayesian Rationality and Jury Decision-Making: An Experiment on the Use of DNA Evidence at Trial” – faculty workshop, George Mason University School of Law, Feb. 15, 2000

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- “An Empirical Examination of the Evidential Use of Likelihood Ratios”– Fourth International Conference on Forensic Statistics, December 7, 1999
- "Oral Evidence Presentation and Rules of Evidence in Adversarial Trials"– Venezuela legal reform project; Chicago-Kent, March 5, 1999
- “Evidential Completeness and the Burden of Proof”– conference on “Truth and Its Rivals: Evidence Reform and the Goals of Evidence Law,” Hastings College of the Law, September 1997
- “Guidance Rules and Enforcement Rules”– faculty workshop, Cornell Law School, March 1997
- "Checkerboard Laws: Dworkin's Inductive Argument for Integrity"– Legal Theory Workshop, Chicago-Kent College of Law, November 1995
- "Jurisprudence in the First Year Curriculum"– AALS Jurisprudence Workshop, Los Angeles, Oct. 1995
- "Civility and Moses' Treatment of the Recalcitrant Tribes"– D'var Torah, Congregation B'nai Tikvah, Highland Park, Illinois, June 1995
- "Civility and the Burden of Proof"– Legal Theory Workshop, Chicago-Kent, June 1994
- "Evidential Completeness"– Legal Theory Workshop, Chicago-Kent, April 1993
- "Chicago-Kent's New First Year Course"– talk concerning required first year course on Justice & the Legal System, presented at Pre-Law Advisor Workshop, Chicago-Kent, April 1992
- "Topics in Jurisprudence"– moderator and discussion leader for presentation of four jurisprudential papers, as part of Chicago-Kent's Dedication Symposium, March 1992
- "Justice and the Law School Curriculum"– conference on The Justice Mission of American Law Schools, Cleveland State University, October 1991
- "A Comment on Professor Damaska's Comparative Analysis of Responses to Hearsay"– Hearsay Reform Conference, University of Minnesota, September 1991
- "Missing Evidence"– conference on Decision and Inference in Litigation, Cardozo School of Law, March 1991
- "A Comment on Professor Nesson's Claims About Evidence Destruction"– conference on Decision and Inference in Litigation, Cardozo School of Law, March 1991
- "The Flag Desecration Exception"– Illinois Law-Related Education Conference, October 1989
- "Law and Liberty"– lectures presented to undergraduates in summer program hosted by Institute for Humane Studies, George Mason University, July 1989

- "Judicial Discretion and the Best Evidence Principle"– faculty colloquium, IIT Chicago-Kent, Fall 1988
- "The Best Evidence Principle"– faculty colloquium, University of San Diego, Spring 1987
- "The Best Evidence Principle"– faculty colloquium, University of Colorado, Summer 1986
- "A Survey of Ethical and Legal Problems Concerning the Supply of Artificial and Transplanted Body Parts"– Continuing Medical Education at Kishwaukee Hospital, DeKalb, Illinois, Fall 1985
- "The Right to Die"– ABA-LSD Roundtable, Northern Illinois University College of Law, Fall 1983
- "Legal Ethics and the Jury Trial: Comments in Response to *The Verdict*"– the Unitarian Church of Rockford, Illinois, Fall 1982

Institutional Service
(Principal contributions only)

Case Western Reserve University (2002-present):

- Budget Committee (2018-19)
- Externship Committee (2017-18)
- Ad Hoc Bar Passage Committee (2015-19)
- Law School Bylaws Revision Committee (2015-2017, 2019-20); Chair, 2015-16, 2019-20
- Metrics and Assessment Committee (2014-2020); Chair, 2014-2016
- Chair, Library & Computer Committee (2014-2015)
- Chair, Transition Committee (2013-2015) (working on effectuating major school-wide changes necessitated by curricular reorganization within law school)
- Director, Project for on-line LL.M. programs (2012-2014)
- Law School Representative, University Strategic Planning Steering Committee; Chair, Working Group on Academic Excellence (2012-2013)
- Law School Representative, University Faculty Senate (2011-2014); Executive Committee (2012-2013)
- Law School Representative, University Committee on Higher Learning Commission Accreditation (2013-2014)
- Chair, Ad Hoc Committee on English Language Competence of Foreign Students (2013)
- Member, Appeals and Rules Committee (2012-2013)

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- Member, Admissions Committee (2011-2014); Chair (2013-2014)
- Member, Dean Search Committee (2008-2011)
- Co-Chair, Curriculum Committee (2009-2011)
- Member, Excellence Committee (2008-2011)
- Member, ABA Self-Study and University Strategic Planning Committee (2008-2009)
- Co-Chair, Curriculum Committee (2007-2008)
- Member, Ad Hoc Committee on Bar Passage (2007-2008)
- Member, President's Advisory Committee (university Promotion and Tenure) (Spring, 2007)
- Member, Law School Rankings Committee (2007)
- Law Review Advisor, 2003-2006
- Member, Promotion and Tenure Committee, 2002-2005
- Litigation Concentration, Sponsoring Faculty Member, 2003-2005; Chair, Concentration Groups, 2004-2005
- Learning Fellow, University Center for Innovation in Teaching and Education (UCITE), Spring 2004
- Member, Ad Hoc Committee on Law School Rankings, 2003-2004

Chicago-Kent College of Law, Illinois Institute of Technology (1989-2002):

- Chair, Curriculum Committee, 2000-2001 and 2001-2002
- Member, Dean's Ad Hoc Committee on Downsizing, 1999-02: development and implementation of major contraction of size of student body
- Member, Committee on "Litigation and Dispute Resolution" Program, 1993-2001: development of guidelines for new program in litigation and its alternatives; participation in decisions on admissions thereto
- Co-Chair, Faculty Appointments Committee, 1999-2000
- Chair, Clinical Appointments Committee, 1999-2000
- Law School Representative, University Committee on Promotion and Tenure, 1997-2000
- Chair, Law School Promotion and Tenure Committee, 1998-99
- Chair, ABA/AALS accreditation Self-Study Subcommittee on Registration, Course Scheduling, Examinations, and Records, 1996-97: review of Associate Dean's and Registrar's activities
- Chair, Curriculum Committee, 1995-96

- Chair, Faculty Appointments Committee, 1994-95
- Chair, Clinical Appointments Committee, 1994-95
- Member, Chicago-Kent Faculty Advisory Committee, 1993-95: confidential advisory committee elected by faculty to work with the dean on major issues facing the law school
- Member, IIT Faculty Council, 1993-95: participation in faculty governance at the university level, including chairing the Sabbatical Leaves Committee
- Chair, Curriculum and Academic Standards Committee, 1992-93: coordination of curriculum reform project including major restructuring of first-year curriculum
- Co-Chair, Faculty Appointments Committee, 1991-92
- Chair, Curriculum Subcommittee on the Justice Program, 1989-90, and Justice Coordinating Committee, 1990-91: developed new first-year course on “Justice & the Legal System”

Memberships

AALS Evidence Section (Executive Committee, 1990-94; Chairperson, 1992)

AALS Law and Interpretation Section (Executive Committee, 1998)

AALS Jurisprudence Section (Executive Committee, 1996)

California State Bar Association

Education and Law-Related Experience

M.A. 1982 (Jurisprudence and Social Policy), University of California, Berkeley

Research Assistantship: Development of advanced seminar in the theory of evidence

Teaching Assistantships: "Moral Criticism of Law"; "Law and Economics"; "Statistical Methods for Legal Studies"

Law Practice (1977-1980)

Associate attorney: Hollister & Brace, Santa Barbara, California (1978-1980) (civil litigation); Gordon & Rees, San Francisco (1977-1978) (civil litigation)

J.D. 1977, Stanford University

Teaching Assistantship in Jurisprudence, Department of Philosophy (Spring, 1976)

Hilmer Oehlman, Jr. Award for excellence in research, writing, and argument (1975)

Member, Sergeants at Law (mock-trial advocacy)

B.A. 1974, Rice University

Graduated magna cum laude; Phi Beta Kappa

Principal studies: economics; mathematical sciences

Award for Service to Baker College (1974)

Diploma, The Summer School of the University of Vienna (1973)

Pre-Undergraduate Distinctions

Clark Foundation Summer Fellowship at the University of Texas at Dallas, 1970
(physics)

Brown University Associated Alumni Award, 1969 (for quality of written and verbal
expression)

National Science Foundation Summer Fellowships, 1969, at Southern Methodist
University (mathematics) and Cornell University (physics)