Judging by Numbers: Big Data, Artificial Intelligence, and Legal Analytics

Wednesday, October 16 – Sunday, October 20, 2019 | Santa Fe, NM

GEORGE MASON UNIVERSITY ANTONIN SCALIA LAW SCHOOL

LAW & ECONOMICS CENTER

WEDNESDAY, OCTOBER 16

All sessions held in Lumpkins Ballroom South

3:00 – 5:00 pm **Registration,** *Lobby*

5:00 – 6:30 pm **Welcome and Introductions**
Henry N. Butler, Allison and Dorothy Rouse Dean and George Mason University Foundation Professor of Law Executive Director, Law & Economics Center George Mason University Antonin Scalia Law School

Class 1: Three, Two, One, Law! - Introduction to Legal Analytics
Andrew W. Torrance, Paul E. Wilson Distinguished Professor of Law University of Kansas School of Law

Reading Assignment:
Carl T. Bergstrom and Jevin West, "Calling Bullshit 4.4: The Will Rogers Effect." Produced by University of Washington iSchool. May 10, 2017.

"Calling Bullshit 4.1: Right Censoring."

"Case Study: World records as measures of senescence." *Calling Bullshit: Data Reasoning in a Digital World* (blog).

"Calling Bullshit 4.3: P Values and the Prosecutor's Fallacy."

6:30 pm **Welcome Reception and Dinner,** *La Terraza*
(Guest welcome)

Welcome Remarks
The Honorable Harris L Hartz, US Court of Appeals for the Tenth Circuit

The History of the Law & Economics Center I Butler

THURSDAY, OCTOBER 17

All sessions held in Lumpkins Ballroom South

7:00 – 8:00 am **Breakfast,** *Mezzanine*
(Guest welcome)

8:00 – 9:15 am **Class 2: Making Law Add Up - Quantitative Legal Thinking I Torrance**

Reading Assignment:
Daniel Martin Katz. "Quantitative Legal Prediction – or – How I Learned to Stop Worrying and Start Preparing for the Data Driven Future of the Legal Services Industry." *Emory Law Journal*. Vol. 62 (December 2012).

9:30 – 10:45 am   **Class 3: The Plural of Evidence is Data - Numbers and Databases I Torrance**

Reading Assignment:
Khan Academy, "Analyzing Categorical Data."

11:00 am - 12:15 pm   **Class 4: How (not) to Lie with Numbers - Displaying Data Properly I Torrance**

Reading Assignment:
Khan Academy, "The Plural of Evidence is Data – Numbers and Databases."

12:15 pm   **Adjourn for Day**

FRIDAY, OCTOBER 18

All sessions held in Lumpkins Ballroom South

7:00 – 8:00 am   **Breakfast,** *Mezzanine*
(Guest Welcome)

8:00 – 9:15 am   **Class 5: Middle-Out Analysis - Central Tendency and Distributions I Torrance**

Reading Assignment:
Khan Academy, "Summarizing Quantitative Data."

9:30 - 10:45 am   **Class 6: When Numbers Appear to Agree - Correlation and Causation I Torrance**

Reading Assignment:
Khan Academy, "Exploring Bivariate Numerical Data."

11:00 am - 12:15 pm   **Class 7: What are the Chances? - Probability, Commonality, and Rarity I Torrance**

Reading Assignment:
Khan Academy, "Probability."

12:15 pm   **Adjourn for Day**

SATURDAY, OCTOBER 19

All sessions held in Lumpkins Ballroom South

7:00 – 8:00 am   **Breakfast,** *Mezzanine*
(Guests Welcome)

8:00 – 9:15 am   **Class 8: What's the Difference? - Statistical Tests and Significance I Torrance**

        Reading Assignment:
        Khan Academy, "Significance Tests (Hypothesis Testing)"

9:30 - 10:45 am   **Class 9: Lex ex Machina - Automation, Artificial Intelligence, and Law I Torrance**

        Reading Assignment:
        Laurie Donahue, "A Primer on Using Artificial Intelligence in the Legal Profession." *JOLT digest*. (January 2018).

        Monique Da Silva Moore, et al. v. Publicis Groupe & MSL Group, 868 F. Supp. 137 (S.D. N.Y. 2012).

        Benjamin Alarie, Anthony Niblett, and Albert Yoon, "How Artificial Intelligence Will Affect the Practice of Law." (November 2017).

11:00 am - 12:15 pm **Class 10: Numbers as the Judge - Big Data and Legal Analytics Software I Torrance**

        Reading Assignment:
        PatentVector (Resource)

12:15 - 4:45 pm   **Afternoon Study Session**

4:45 - 5:00 pm   **Check-in and Refreshments**

5:00 - 6:15 pm   **Class 11: Q.E.D. - Synthesis of Legal Analytics I Torrance**

        Reading Assignment:
        Hilarie Bass, "Welcome & Opening Keynote." FutureLaw2018 (April 2018).

6:30 - 9:00 pm   **Reception and Dinner**
        Rio Chama, 414 Old Santa Fe Trail, Santa Fe, NM (Guest welcome)

SUNDAY, OCTOBER 20

Travel day, Participants depart at their leisure

HENRY N. BUTLER, JD, PHD

Allison and Dorothy Rouse Dean; George Mason University Foundation Professor of Law; Executive Director, Law & Economics Center, George Mason University Antonin Scalia Law School

Henry N. Butler is the Allison and Dorothy Rouse Dean and GMU Foundation Professor of Law at Antonin Scalia Law School, were he serves as executive director of the Law & Economics Center. For over 30 years, he has led education programs that teach the basics of economics, finance, accounting, statistics, and scientific methods to federal and states judges, and thousands of legal professionals and scholars. From 2007 to 2010, Henry served as the first executive director of the Searle Center on Law, Regulation, and Economic Growth at Northwestern University School of Law. He has held prior appointments at the Brookings Institution, Chapman University, the University of Kansas, the University of Chicago, and Texas A&M University. From 1986 to 1993, he was a law professor at George Mason and, during that period, also served as an associate dean and director of the Law & Economics Center. He received a BA in economics from the University of Richmond, and an MA and PhD in economics from Virginia Polytechnic Institute and State University (where he studied under George Mason University's first Nobel Laureate James M. Buchanan), and a JD from the University of Miami School of Law (where he was a John M. Olin Fellow in Law & Economics).

ANDREW W. TORRANCE JD, PHD

Paul E. Wilson Distinguished Professor of Law University of Kansas School of Law

Andrew W. Torrance is the Paul E. Wilson Distinguished Professor of Law at the University of Kansas School of Law, and a winner of a 2015 University Scholarly Achievement Award at the University of Kansas. He received his PhD in Biology from Harvard University in 1997, JD from Harvard Law School in 2000, and Bachelor of Science from Queen's University (Canada) in 1991. Prior to his arrival at KU, Torrance taught at Harvard University as Eliot House Resident Tutor in Biology and Law from 1993 to 2000, Tutor in Biology from 1999 to 2005, and Hrdy Visiting Professor of Conservation Biology in 2003. In 2008, Torrance served as a policy advisor to presidential candidate Barack H. Obama on his Technology, Media, and Telecommunications Committee. Torrance teaches and conducts research in patent law, intellectual property, innovation, food and drug regulation, biotechnology law, biodiversity law, biolaw, and empirical, experimental, and big data approaches to the law. Specific research foci include open, user, and collaborative innovation, design, and legal issues surrounding genes, biotechnology, genetically-modified organisms, synthetic biology, conservation biology, and de-extinction. Torrance has given more than 100 scholarly presentations at numerous universities, research organizations, governments, and intergovernmental agencies in seven countries.