

Warren E. Agin

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Mr. Agin is a Managing Director in Elevate Services' Product Division where he helps the firm build cutting edge products as a legal knowledge engineer, develops data systems, designs and builds AI systems, and leads initiatives in the division's enterprise software development process.

Elevate Services

Boston, MA

Managing Director, Products
Managing Director, Technology & Digital Consulting
Senior Consultant, Data Solutions, LexPredict

March 2021 to Present
November 2019 to March 2021
July 2018 to November 2019

Member of Global Leadership Team.

Led or played key roles in multiple innovation projects including:

- Product Manager for Analyse Documents - Elevate's AI powered contract analysis platform.
- Integrating data science solutions into enterprise product Line including data model design, data architecture design, ML/NLP toolkits design and build, and large-scale legal language specific transformer model creation.
- Designing, developing, and managing production integration of a system for automating invoice violation detection.
- With an eight-person development team, automating business unit reporting functions related to legal invoice review.
- Expanding PowerBI based visualization and dashboard capabilities within Elevate.
- Building systems to normalize and correct eBilling data at scale, including AI based data augmentation, and designing and building advanced PowerBI supported dashboards for investigating legal spend at a Fortune 100 company.
- Managing advanced data analytics project examining three years of litigation data for a major insurance company.

Executive member of Elevate's Digital Solutions Division focused on designing customer solutions focused on digital transformation.

As a consulting lead helped law firms discover how to use their data to drive profitability and improve performance.

Working with the data science group, developed legal ontologies, large scale word2vec language models and NLP machine learning algorithms.

Supported programming teams in developing processes for various tasks including parsing legal citation references, interpreting billing narratives, and identifying root causes for matter outcomes.

Part of team that won internal CEO Award for producing a whitepaper on using technology assisted review to support LIBOR work.

- **Founding Chair** – American Bar Association, Legal Analytics Committee, Business Law Section (2016 to 2020)
- **Governing Council**, ABA Center for Innovation (2019 to 2022)
- **Advisory Board**, Upsolve
- **Adjunct Professor** – Boston College Law School, teaching its first course on legal analytics in 2017
- **Member** – International Association for Artificial Intelligence and Law

Analytic Law, LLC**Boston, MA**

Principal May 2017 to July 2018

Analytic Law, LLC was a consultancy that helped law firms and departments discover how to solve legal problems using analytic techniques, including data analytics, prediction systems, machine learning, game theory and behavioral economics.

Agin Legal Services, LLC**Boston, MA**

Principal May 2017 to November 2019

Practice focused in the areas of bankruptcy and insolvency, technology, and Internet law. Licensed to practice in Massachusetts and before the United States Court of Appeals for the First Circuit.

Swiggart & Agin, LLC**Boston, MA**

Of Counsel May 2017 to December 2019

Member 1999 to May 2017

Headed firm's bankruptcy practice from 1999 as a founding partner. Served as a bankruptcy trustee in addition to representing debtors, creditors and other parties in Chapter 7 and Chapter 11 cases, handled corporate, technology and licensing matters for start-up companies.

Authored BANKRUPTCY AND SECURED LENDING IN CYBERSPACE, 3RD ED. (West, 2007) (first publication – 2000), BANKRUPTCY AND INTELLECTUAL PROPERTY DESKBOOK (ABA, 2016). Edited THE BEST IN E-COMMERCE LAW (Bowne, 2001) and has frequently lectured on the topics of bankruptcy and technology to groups such as the American Bar Association, American Bankruptcy Institute and MCLE.

Served as a panel bankruptcy trustee for the District of Massachusetts from 2005 to 2019.

- **Chair** – American Bar Association, Technology Committee, Business Section (2005-2008)
- **Chair** – American Bar Association, E-commerce and Insolvency Subcommittee, Business Bankruptcy Committee, Business Section (1999 to 2005)
- **Editor in Chief** – ABA Business Law Section's Business Law Today magazine (2013 to 2016, served previously as a member of the Editorial Board from 2010)
- **Member** - American Bar Association, Standing Committee on Technology and Information Services (three year appointment) (2008-2011)
- **Former Co-Chair** – Boston Bar Association, Computer and Internet Law Committee (2003-2005)
- **Former Co-Vice-Chair** - American Bar Association, Joint Subcommittee on Electronic Financial Services, Business Section
- Contributing Editor, Norton Bankruptcy Law and Practice, 3rd Edition (maintained the chapter on intellectual property)
- Selected as a Super Lawyer 2008, 2009, 2013-2019. Selected a Top Bankruptcy Lawyer in Boston by Boston Magazine, 2012 and 2013.
- AV rated by Martindale-Hubbell.

Prior**Employment**

Law Offices of Warren E. Agin
Principal: 1996-1999

Boston, MA

Handled corporate, technology and licensing matters for start-up companies, and represented individuals and business in insolvency matters.

Barron & Stadfeld, P.C.
1990 to 1996

Boston, MA

Associate -- Bankruptcy Department. Primary clients included banks and other financial institutions. Also provided primary support for a Chapter 7 bankruptcy trustee. Transactional Department. General corporate work included incorporating and providing legal support to profit and non-profit corporations.

Ferraro & Walsh
1989 to 1990

Cambridge, MA

Associate -- Litigation Department. Concentrated in commercial and real estate litigation, creditor and debtor rights, workouts, and bankruptcy.

Education

Boston College School of Law
Juris Doctor, Cum Laude

Boston, MA

Washington University School of Business

St. Louis, MO

Bachelor of Science in Business Administration Management and finance concentration with an economics minor.

Technical Education

Software Architecture by University of Alberta on Coursera. Certificate earned on March 11, 2020.

Object-Oriented Design by University of Alberta on Coursera. Certificate earned on January 4, 2020.

Machine Learning (Andrew Ing Course) by Stanford University on Coursera. Certificate earned on January 13, 2019.

Machine Learning: Regression by University of Washington on Coursera. Certificate earned on March 25, 2017

Machine Learning Foundations: A Case Study Approach by University of Washington on Coursera. Certificate earned on February 19, 2017.

Increasing Real Estate Management Profits: Harnessing Data Analytics by Duke University on Coursera. Certificate earned on October 4, 2016.

Managing Big Data with MySQL by Duke University by Duke University on Coursera. Certificate earned on July 2, 2016.

Data Visualization and Communication with Tableau by Duke University on Coursera. Certificate earned on May 12, 2016.

Mastering Data Analysis in Excel by Duke University on Coursera. Certificate earned on April 3, 2016.

Business Metrics for Data-Driven Companies by Duke University on Coursera. Certificate earned on March 6, 2016.

Publications

Books (partial list of current and major publications)

Author, BANKRUPTCY AND INTELLECTUAL PROPERTY HANDBOOK (ABA 2016)

Author, BANKRUPTCY AND SECURED LENDING IN CYBERSPACE, 3RD EDITION (West 2007) (First Edition published in 2000).

Editor, THE BEST IN E-COMMERCE LAW (Bowne & Co., Inc. 2001)

Contributing Author, Legal Informatics (Cambridge Press, 2021)

Contributing Author, The Law of Artificial Intelligence and Smart Machines (Chapter 1, A History of Artificial Intelligence)(ABA 2019)

Law Review Articles

"Predicting Chapter 11 Bankruptcy Case Outcomes Using the Federal Judicial Center IDB and Ensemble Artificial Intelligence," Georgia State University Law Review, Vol. 35, No. 4, June 1, 2019 (with Gill Eapen)

"Using Machine Learning to Predict Success or Failure in Chapter 13 Bankruptcy Cases," 2018 Annual Survey of Bankruptcy Law 13, p. 369 (Thomson Reuters, 2018)

"Section 105, Chevron, and the Surcharge Remedy," 2013 Annual Survey of Bankruptcy Law 15 (Thomson Reuters, 2013)

"The Essential Concept, The First Truth, and the Fourth Circuit's Interpretation of Section 365(c)(1) in *In re Sunterra Corporation*," 2005 Annual Survey of Bankruptcy Law 361 (West, 2005)

"A Framework for Understanding Electronic Information Transactions," 15 Albany Law Journal of Science & Technology 277 (2005)

"The Nonassumable Technology License," 2003 Annual Survey of Bankruptcy Law 305 (West, 2003). Also published in The Licensing Journal, pg. 8 (September 2003).

"The Internet Bankruptcy: What Happens When the Bell Tolls for the eCommerce Industry?" 1 J. HIGH TECH. L. 1 (2002)

"The Internet Bankruptcy: What Happens when the Bell Tolls for the eCommerce Industry?" Norton Annual Survey of Bankruptcy Law (West Group, 2001-2002)

"How Lenders Can Maximize the Accrual of Postpetition, Preconfirmation Interest in Bankruptcy Proceedings; A Review of the Law in Light of the United States Supreme Court's Decision in *Rake v. Wade*," 13 Boston University Annual Review of Banking Law 325 (1994).

Other Articles (partial list of current articles)

"The Biggest Data: Advising Clients about Alternative Lending Models and the Regulatory Scrutiny They Generate," Business Law Today (August 2019)(with Aki Estrella)

"Problems in the Code: Bankruptcy Statistics – We Need a New §159" American Bankruptcy Institute Journal, p.26 (October 2018)(with Ed Flynn).

"An Introduction to Behavioral Economics and Negotiations", Business Law Today (November 2017)

"A Simple Guide to Machine Learning", Business Law Today (February 2017) (republished in The SciTech Lawyer, Fall 2017)

"Laying Down the Law: Supreme Court to Consider Surcharge Remedy", Norton Bankruptcy Law Adviser, (August 2013) p. 1.

"Tales from the Frightening World of Bankruptcy" Intellectual Property Magazine, p. 100 (March 2012)

"Problems in the Code: Assuming Intellectual Property Licenses" American Bankruptcy Institute Journal, Vol. 31, No. 1 (February 2012)

"Reconciling the FTC Act with the Consumer Privacy Ombudsman's Role" American Bankruptcy Institute Journal, Vol. 29, No. 8 (October 2010)

"A Chapter 7 Trustee's Guide to Properly Preserving Patents," NABTTalk (Spring 2010)

"Domain Names as Collateral: Are We All Just Kidding Ourselves?" Business Law Today (September/October 2008)

"Thyroff: Another Remedy for Destruction or Concealment of Electronic Records," ABI Committee News: Commercial Fraud Task Force Committee, Vol. 4, No. 7 (October 2007)

"Book Review: Information Security Law: Control of Digital Assets," American Bankruptcy Institute Journal, Vol. 26, No. 3 (April 2007)

"Handling Customer Data in Bankruptcy Mergers and Acquisitions," Consumer Finance Law Quarterly Report, Vol. 60, No. 4 (Winter 2006), also published in American Bankruptcy Institute Journal, Vol. 24, No. 6 (July/August 2005)

"I'm a Domain Name. What am I? Making Sense of Kremen v. Cohen" Journal of Bankruptcy Law and Practice, Vol. 14, No. 3 (2005)

"Electronic Signatures and Instruments", Journal of Bankruptcy Law and Practice, Vol. 14, No. 2 (2005)

"Why I Love ECF," debt³, Vol. 20, No. 2, p. 26 (March/April 2005)

"Can A Debtor Stay Online? Internet Access and Computers in Consumer Bankruptcy Cases", Andrews Computer and Internet Litigation Reporter (September 7, 2004)

"Here Today and Gone Tomorrow: Section 365 and the Unfortunate Intellectual Property Licensee" 1 No 9 Andrews Bankr Lit Rep 4 (August 27, 2004)

"Chrysanthemums and Roses: Japanese Treatment of Licenses in Bankruptcy Cases," 8 J. of Internet Law 3 (July 2004) (with Professor Hironao Kaneko).

Presentations (partial list of recent presentations)

Moderator, "Analytics in Law Practice: What's Here, What's Next", ABA Business Law Section Annual Meeting, Washington, D.C., September 17, 2022.

Speaker, "The Myriad Approaches to ESG Data & How to Use Your Data to Report Reliably", ABA Business Law Section Spring Meeting (virtual), March 31, 2022.

Speaker, "AI: Friend or Foe," ABA Business Law Section Annual Meeting (virtual), October 14, 2020.

Panelist, "Five Things Every Attorney Needs to Know about Artificial Intelligence," Metajure webinar, June 24, 2020.

Speaker, "Forecast-alytics: Understanding Litigation Analytics for Case Evaluation" and "Hitchhiker's Guide to AI," ABA TECHSHOW 2020, Chicago, February 2020.

Panelist, "A Conversation around Legal Innovation," NE Litigation Technology Association, Boston, February 12, 2020.

Moderator, "Measuring Success and Failure of Legal Projects with Data Analytics," 2019 Strategic Technology Forum, La Jolla, November 6, 2019.

Speaker, "Case Studies in Prediction," Georgia State University Law Review Symposium: Legal Intelligence through Artificial Intelligence, Atlanta, April 5, 2019.

Chair, "Legal Analytics Series: Organizing Useful Practice Data - First Steps for Everyone," American Bar Association, Business Law Section, Spring Meeting, Vancouver, March 29, 2019.

Keynote, "Artificial Intelligence and Modern Legal Practice: A Vision of Law in the 21st Century," presentation at the Widener University Commonwealth Law School, Harrisburg, October 24, 2018.

Speaker, "Legal Knowledge in Times of Big Data," Law via the Internet 2018, Florence, Italy, October 12, 2018 (presenting a paper on Chapter 13 prediction).

Presenter, "AI and the Trademark Lawyer," IPO Annual Meeting, Chicago, September 24, 2018.

Faculty, Region One Chapter 7 Panel Trustee Seminar (Current Developments), September 21, 2018.

Chair, "Behavioral Economics: When and Why Debtors Lie," NABT Convention, Amelia Island, August 16, 2018.

Presenter, "Tech2Practice: Embracing Data Analytics in Your Practice," MCLE, Boston, May 9, 2018.

Speaker, "Machine Generated Assets: Understanding the Intersection of Artificial Intelligence and Intellectual Property and How to Protect Your Client," American Bar Association, Business Law Section Spring Meeting, Orlando, April 13, 2018.

Faculty, Data Utilization and Practice Innovation Conference by marcus evans, Chicago, March 20-21, 2018.

Keynote "AI and the Professions: Past, Present & Future," National Conference of Lawyers & CPAs Annual Meeting, Hollywood Florida, December 11, 2017.

Faculty, Region One Chapter 7 Panel Trustee Seminar (Applying Behavioral Psychology in Trustee Work), October 19, 2017.

Moderator, "Legal Analytics: An Introduction to Using Data and Artificial Intelligence in Legal Services," American Bar Association, Business Law Section Business Basics Webinar, August 24, 2017.

Panelist, "Behavioral Economics: How It Informs Corporate Compliance, Dispute Resolution, and Disclosures," American Bar Association, Business Law Section Spring Meeting, New Orleans, April 8, 2017.

Moderator, "Unique Issues That Arise In Taking a Security Interest in Intellectual Property," American Bar Association, Business Law Section, Business Bankruptcy Committee Sponsored Program in San Francisco, October 28, 2016.

Chair, "The New Paradigms: an Introduction to Legal Informatics for the Business Lawyer," American Bar Association, Business Law Section Annual Meeting, Boston, September 9, 2016.