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Raina Haque
Curriculum Vitae

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Professor of practice at **Wake Forest University School of Law**, intellectual property attorney, and data science engineer. Technical background comprises: artificial intelligence, parallel computing, bioinformatics, data structures, data science, programming languages, network science, cloud computing, image processing, graph theory.

SCHOLARLY PUBLICATIONS

- Raina Haque et al., *The Non-Obvious Razor and Generative AI*, 25 N.C. J.L. & TECH. 399 (2024). Referenced by a congressional office in close association with the Senate Judiciary Committee's Subcommittee on Intellectual Property.
- Raina Haque et al., *Blockchain Development and Fiduciary Duty*, 2 STAN. J. BLOCKCHAIN L. & POL. 139 (2019). Cited 80+ times in multiple disciplines: law, economics, computer science; cited in an opinion by the High Court of England and Wales (*Tulip Trading Ltd. v. Van Der Laan*, [2023] EWHC 263 (Ch) (Eng.))

EDUCATION

University of North Carolina School of Law, Chapel Hill, NC
- Merit Scholarship Recipient, Civ. Pro. Teaching Fellowship Award
- Pro Bono Hours: 110+ (Pro Bono Service Award, UNC Pro Bono Program, 2010)

Wellesley College, Wellesley, MA
- Bachelor of Arts in Bioinformatics (equivalent to double major in Computer Science & Biology), 2007
- Computer Science and Biology Science Department Merit Awards and Teaching Fellowships

SELECTED IP/TECHNOLOGY PROFESSIONAL EXPERIENCE

Wake Forest School of Law, Winston-Salem, NC Aug. 2017-Present *Professor of Practice - Computational Law and Emergent Technologies*
- Teaching law students about law, policy, and technologies surrounding the internet, big data analytics, data security, artificial intelligence, robotics, IoT, blockchain technologies, cybersecurity through focused courses.
- Developed emerging technology CLEs for practicing attorneys and executives.
- Directed "Blockchain and Antiquities Hackathon," a high-profile transdisciplinary project under the purview of the Provost's Office.

Duke University School of Law, Durham, NC Jan- June 2020 *Adjunct Professor of Computational Law, Affiliate Faculty for the Duke Center for Law and Technology (DCLT)*
- Taught Law 332: "Coded Governance: Blockchains, Smart Contracts, and Cryptoventures."
- Contributing to media outreach for DCLT.
- Planning online executive education for DCLT enterprise affiliates.

Erdős Intellectual Property Law, Winston-Salem, NC Aug. 2013–Present *Founding Attorney*
- Drafting patent applications, freedom-to-operate opinions, trademark applications, and responding to office actions.

- Advising clients in mergers and acquisitions, product development, and business development.

United States Bankruptcy Court for the Middle District of North Carolina, Greensboro, NC Aug. 2012–Sept. 2013 *Judicial Law Clerk for the Honorable Chief Judge Catharine Aron*
- Analyzed parties' positions, conducted legal research, wrote memoranda and drafted opinions for matters under advisement, 12(b)(6) motions, motions for summary judgment, and trial proceedings

Merrill Lynch & Co. /Bank of America, New York, NY July 2007–July 2009 *Software Engineer and Project Manager for Global Markets Portfolio Trading Technologies*
- Developed software to automate representation of in-house trade execution, clearance, and settlement
- Managed fifteen global application groups to estimate impact of NASDAQ's proposed requirement of special character suffixes of subordinate security types under a close deadline.
- Contributed research and impact analysis for presentation to the SEC and other industry associations.

National Institute of Environmental Health Sciences, RTP, NC 2003-2005, summers
Fellow at the Nuclear Magnetic Resonance and Neuromolecular Toxicology Labs
- Developed software program implementing artificial neural networks to classify NMR spectra of amino acids.
- Software performed more precisely than any other known machine learning application for the aromatic amino acids.
- Performed analytics of digital data representing gene expression amplification related to microglia activation postinjury in murine models.
- Institute-wide poster presentations on the above developments and research.

SELECTED PROFESSIONAL PUBLICATIONS/BLOG POSTS

- Raina Haque & Alexandra Portaro, *Chapter 30: The Lay of the Land and Safe Harbors in the Software Patentability Landscape... and a Quick Bird's Eye View of Blockchain Technology Patents*, in *PLI 2018: Critical Issues & Best Practices* (Practising Law Institute, April 2018).
- Haque, Raina S. "*Blockchains and Legal Practice Implications and Possibilities*" *Future of the Law: 2017 Annual Report of the North Carolina Bar Association*. North Carolina Bar Association, 2017.
- Raina Haque, *Message from the USPTO: It's Patent Prosecution, not Persecution*, IPWatchdog (July 21, 2016), https://ipwatchdog.com/2016/07/21/uspto-patent-prosecution-not-persecution/id=71148.
- Raina Haque, *Five Considerations when Pursuing Patent Rights in the Blockchain Technology Space*, IPWatchdog (Apr. 28, 2017), https://ipwatchdog.com/2017/04/28/patent-rights-blockchain-technology/id=82223.
- Raina S. Haque, Rodrigo Seira Silva-Herzog, Brent A. Plummer & Nelson M. Rosario, *Blockchain Developers and Fiduciary Duty*, CLS Blue Sky Blog (June 21, 2019), https://clsbluesky.law.columbia.edu.
- Raina Haque, *A Creeper: Absorbing Generative AI into the Inventive Process*, IPWatchdog (May 14, 2024), https://ipwatchdog.com/2024/05/14/creeper-absorbing-generative-ai-inventive-process/id=176466.

SELECTED RECENT PRESENTATIONS/PUBLIC ENGAGEMENTS

- *"Legal Standards for Algorithmic Decision-Making Systems: One Experience," Technology Law Summer Webinar Series, Association of American Law Schools*, Presented by Erin Hensee and Raina Haque, July 19, 2023, https://www.aals.org/sections/list/technology-law-and-legal-education/legal-standards-for-algorithmic-decisi

on-making-systems-one-experience/.

- Raina Haque, *Trust Less, Blockchain More*, TEDxWakeForestU (Feb. 2018), available at https://www.ted.com/talks/raina_haque_trust_less_blockchain_more
- Raina S. Haque, *Middle District North Carolina Federal Bar Annual Conference*, Speaker, (Nov. 14, 2023), https://www.fedbar.org/events/category/middle-district-nc-federal-bar-annual-conference.
- Raina S. Haque, *Q&A: Artificial Intelligence in the Law School Classroom*, Westlaw Today (Dec. 22, 2024), https://today.westlaw.com/Document/Ic675c93aa0.
- Raina S. Haque, *Patent 101 for the Center for Artificial Intelligence Research*, Presentation (May 15, 2024), https://media.licdn.com/dms/image/D4E22AQFFn9oHWx4Bpa/video.
- Raina Haque, *Blockchain Governance & Liability*, Presentation at Stanford CodeX (Apr. 7, 2020).
- Raina Haque, *Fiduciary Duty and Blockchain: Who Do We Trust?*, Presentation at the Blockchain and Law Symposium, Harvard Law School (Mar. 2, 2020).

SELECTED MEDIA MENTIONS

- *Miranda Nazzaro, Harris, Trump Fight for Crypto Voters as Industry Rises in Washington, The Hill (Sept. 25, 2024), https://thehill.com/policy/technology/4897018-cryptocurrency-voters-presidential-candidates/.*
- *Artificial Intelligence*, Westlaw Today, available at https://today.westlaw.com/Document/Ic675c93aa0.
- Jeff Horwitz & Parmy Olson, *Facebook Unveils Cryptocurrency Libra in Bid to Reshape Finance*, Wall St. J., June 18, 2019, available at https://www.wsj.com/articles/facebook-unveils-crypto-wallet-based-on-currency-libra-11560850141.