

# M. Katherine (“Kate”) Philpott

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- EDUCATION**      **UNIVERSITY OF VIRGINIA SCHOOL OF LAW, J.D.**      MAY 2006  
Executive Board, *Virginia Law Review* • Recipient, Public Interest Law Association grant
- VIRGINIA COMMONWEALTH UNIVERSITY, M.S. IN FORENSIC SCIENCE**      DEC. 2002  
*Summa cum laude* • Alpha Phi Sigma
- COLLEGE OF WILLIAM AND MARY, B.S. IN BIOLOGY**      DEC. 1999  
*Magna cum laude* • James Monroe Scholar • Golden Key International Honor Society
- EXPERIENCE**      **FORENSIC CONSULTANT, RESTON, VIRGINIA**      2011 – PRESENT  
*Legal, Scientific and Policy Advisor.* Evaluate forensic laboratory files and other scientific evidence and assist attorneys in conveying complex scientific issues to jurors. Provide legal advice and services related to the same (e.g. develop case strategy; prepare expert witnesses, evidentiary motions, and cross examinations of opposing experts). Conduct trainings to make forensic science accessible to attorneys and judges, as well as defendants. Assist with academic research related to new forensic biology techniques, particularly cell analysis and sorting methodologies. Help shape and coordinate policy efforts at the local, state and federal levels to improve and reform forensic practice and develop consensus standards.
- VIRGINIA COMMONWEALTH UNIVERSITY**      2019-PRESENT  
*Adjunct Professor.* Teach course on criminal procedure and evidence to students in the Department of Forensic Science.
- UNIVERSITY OF VIRGINIA SCHOOL OF LAW/DUKE LAW SCHOOL**      2016-PRESENT  
*Lecturer.* Co-teach practicum class on forensic litigation, including lessons on scientific method, review of scientific literature, evaluating scientific evidence, and law of evidence.
- PUBLIC DEFENDER SERVICE (PDS) FOR THE DISTRICT OF COLUMBIA**      2008 – 2011  
*Forensic Staff Attorney & in-house Forensic Scientist.* Served as PDS’s forensic expert in scientific, legal, and policy capacities. Managed forensic-related projects and litigation strategy for PDS, and worked with the defense community nationwide to coordinate on systemic forensic issues. Supervised activities of PDS’s Forensic Practice Group. Trained attorneys and investigators on a range of topics at the intersection of science and law.
- COVINGTON & BURLING LLP, WASHINGTON, D.C.**      2006 – 2008  
*Associate.* Conducted complex civil litigation, constitutional litigation, tort litigation, and white collar criminal defense. Advised pharmaceutical company in patent due diligence matters.
- PROFESSIONAL ACTIVITIES**      Bar Admissions in Virginia and District of Columbia  
Associate Member, American Academy of Forensic Sciences (AAFS)  
Firearms and Toolmarks Consensus Body, AAFS Standards Board  
Legal Task Group, Organization of Scientific Area Comms. (OSAC) (2019-present)  
Human Factors Subcomm., Nat. Commission on Forensic Science (Jan. 2015 – sunset)  
Forensic Disciplines Comm., Nat. Assoc. of Criminal Defense Lawyers (2012-present)
- SELECTED PUBLICATIONS**      Brocato, E.R., et al., Rapid differentiation of epithelial cell types in aged biological samples using autofluorescence and morphological signatures, *PLoS ONE* 13(5): e0197701. (2018)
- Philpott, M.K., et al. Analysis of cellular autofluorescence in touch samples by flow cytometry: Implications for front end separation of trace mixture evidence, *Anal. Bioanal. Chem.* 409(17) (2017) 4167-4179.