

## **WARREN BARTHOLOMEW CHIK KAM WAI**

**Associate Professor of Law (Singapore Management University)**  
**Deputy Director, Centre for Artificial Intelligence and Data Governance (SMU)**  
**LLB 2<sup>nd</sup> Upp. (National University of Singapore)**  
**LLM *Dist.* in International & Comparative Law (Tulane University)**  
**LLM in International Business Law (University College London)**  
**Advocate & Solicitor (Singapore)**  
**Attorney and Counsellor-at-law (New York)**  
**Solicitor (England & Wales)**  
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### **Capsule Biography:**

Assoc Prof Warren Chik conducts research and study in the area of Information Technology Law, Privacy and Personal Data Protection Law and Internet Intermediaries Law. He has written extensively in this fields and have published in prominent journals as well as produced and contributed to several treatises on Singapore law in these areas, contributing to the development of the jurisprudence and scholarship locally.

He is also the Deputy Director of the Centre for A.I. and Data Governance and is involved in several large-scale and well-funded projects both within the Centre and externally with both local and international collaborators in law-centric as well as inter-disciplinary studies.

### **Employment:**

#### **I. Singapore Management University**

Associate Professor of Law, Singapore Management University School of Law (2013-)  
 Assistant Professor of Law, Singapore Management University School of Law (2005- 2012)

#### **II. Attorney-General's Chambers, Singapore**

State Counsel and Advisor, International Affairs Division (1998-2003)  
 Deputy Public Prosecutor, Criminal Investigation Division (1996-1998)

#### **III. Other Honorary, Professional and Academic Positions**

##### **Internal**

Professorial Fellow, AGC-Legal Service Academy (2022-)  
 Deputy Director, Centre for AI and Data Governance (2019-)  
 Associate Dean (External Relations), SOL (2013-17)  
 Chair, SOL Law and Technology Advisory Council (2017-)  
 Chair, SOL 10<sup>th</sup> Anniversary Celebrations (2016-17)  
 Member, Coordinating Council for Students (2015-19)

Member, Scholarship Selection Committee, SOL (2013-)  
 Cluster Head, Business Law, SOL (Term 1, AY 2011-2012)  
 Member, Area of Excellence in Innovation and Entrepreneurship (AoE &E), SMU (2011-)  
 Member, LMS Faculty Advisory Group, SMU (2010-)  
 Member, Staff Welfare Committee, SOL (2008-)  
 Member, Faculty IT Advisory Board, SMU (2007-)  
 Member, Law School Website Consultation Group, SOL (2006-)

### External

Internet Society, Singapore Chapter, Singapore Internet Research Centre (2016-)  
 Program Committee Member, SAL Technology Law Conference (Singapore) (2014-)  
 Advisory Board Member, Data Protection Academy (2014-16)  
 Committee Member, Themis Law Network (2013-16)  
 Member of the Advisory Panel, Australian Research Council funded project on Digital Jurisdiction (2012-16)  
 Program Committee Member, International Conference on Technical and Legal Aspects of the e-Society CYBERLAWS (2010-)  
 Country Representative & Regular Session Chair, IAITL Legal Conference Series consisting of the LSPI, ILTC, IPL & IPLC Law Conferences (2009-)  
 Committee Member, Centre for Innovation and Technology Exploitation (Singapore) (2009-)  
 Founding Member, Creative Commons (Singapore) (2008-)  
 Member, Law Reform Committee, Singapore Academy of Law (2006-2011)  
 Executive Director/Member, International Law Society of Singapore (2005-2007/2008- )  
 Peer-Reviewer, Computer Law and Security Review (2010-), International Journal of Information Management (2010-) and Journal of Law and Management (2010-), Asian Journal of International Law (2016-)

### Education:

### Publication History:

#### I. Books And Monographs (including Chapters)

1. Chapter on Ethical Considerations and Legal Issues Relating to Federated Learning in Federated Learning: Theory and Practice (forthcoming book publication).
2. Chapter on Artificial Intelligence and Data Protection in Singapore: Consumers' Trust, Organizational Security and Government Regulation in A.I., Data and Private Law: Translating Theory Into Practice (2021, Hart Publishing).
3. Chapter on Information and Communications Technology and Singapore Law **in Law and Technology in Singapore** (2021, Academy publishing).
4. **Information and Communications Technology and Singapore Law** (2020, Academy Publishing, as co-author).

5. Chapter on Information Technology Law in **Principles of Singapore Business Law** (2020 3ed., Cengage Learning).
6. **The Data Economy: Implications from Singapore** (2018, Routledge, as co-author).
7. Chapter on The Do Not Call Registry in **Data Protection Law in Singapore: Privacy and Sovereignty in an Interconnected World** (2018 2ed., Academy Publishing).
8. Chapter on Information Technology Law in **Principles of Singapore Business Law** (2018 2ed., Cengage Learning).
9. Chapter on The Singapore Personal Data Protection Bill and an Assessment of Future Trends in Data Privacy Reform in **Contemporary Private Law** (2012, LSPI Conference Publication).
10. Chapter on The Google Conundrum: Facilitator or Enabler? - Forging a Fair Copyright Framework for New Intermediaries in **Private Law: Rights, Duties and Conflicts: 5<sup>th</sup> International Conference on Legal, Security and Privacy Issues in IT** (2010, LSPI Conference Publication).
11. Chapter on Information Technology Law in **Principles of Singapore Business Law** (2009, Cengage Learning).
12. Chapter on Customary Internet-ional Law: Creating a Body of Customary Law for Cyberspace in **Legal Discourse in Cyberlaw and Trade: 4<sup>th</sup> International Conference on Legal, Security and Privacy Issues in IT** (2009, LSPI Conference Publication).
13. Chapter on Harassment through Digital Media: A Cross-Jurisdictional Comparative Analysis on the Law on Cyberstalking in **Digital Crimes** (2008, ICFAI Law Books).
14. Chapters on The Case for Statutory Fair Dealing/Use Right and Harassment through Digital Media in the **2<sup>nd</sup> International Conference on Legal, Security and Privacy Issues in IT** (2007, LSPI Conference Publication).
15. Chapter on Challenges to Criminal Law Making in the New Global Information Society: A Critical Comparative Study of the Adequacies of Computer-Related Criminal Legislation in the United States and the United Kingdom in **Cybercrimes and the Law** (2007, ICFAI Law Books).
16. The Law of International Commercial Arbitration in Singapore in **Resolving International Business Disputes by ADR in Asia** (2006, Transnational Dispute Management (TDM) 4).
17. Recent Developments in International Commercial Arbitration in Singapore, Singapore Yearbook of International Law (SYBIL) 2005 - 2007.

- a. Recent Developments in International Commercial Arbitration in Singapore, SYBIL 2007 Vol. XI.
  - b. Recent Developments in International Commercial Arbitration in Singapore, SYBIL 2006 Vol. X.
  - c. Recent Developments in International Commercial Arbitration in Singapore, SYBIL 2005 Vol. IX.
18. Book Review: Arbitration in China - A Practical Guide (2004 Thompson Publishers, Sweet & Maxwell Asia), Singapore Yearbook of International Law (SYBIL) 2005 Vol. IX.
19. Recent International Law Developments in Singapore, Singapore Journal of International and Comparative Law (SJICL) 2002 - 2003.
- a. Brief Notes: Recent International Legal Developments in Singapore, SJICL 2003 Vol. 7, p. 267-.
  - b. Brief Notes: Recent International Legal Developments in Singapore, SJICL 2002 Vol. 6, p. 1058-.
  - c. Singapore and International Law, SJICL 2002 Vol. 6, p. 597-.

## II. Law Journal Publications (including Case Notes)

1. The Reasonableness Standard of Compliance in the Singapore Personal Data Protection Act, Singapore Academy of Law Journal 2022 34 SAclJ 352.
2. Whither the Future of Internet Streaming and Time-Shifting? Revisiting the Rights of Reproduction and Communication to the Public in Copyright Law After *Aereo*, 2015 International Journal of Law and Information Technology 2015 Vol. 23 Iss. 1, p. 53 (with Saw Cheng Lim).
3. The Meaning and Scope of Personal Data Under the Singapore Data Protection Act, Singapore Academy of Law Journal 2014 26 SAclJ 354 (with Pang Keep Ying).
4. The Singapore Personal Data Protection Bill and an Assessment of Future Trends in Data Privacy Reform, Computer Law & Security Review 2013 Vol. 29 Iss. 5, p.554-575.
5. Authorisation of Copyright Infringement in Singapore, Singapore Academy of Law Journal: Special Issue on IP Law 2012 Vol. 24 SAclJ p.698-744 (with Saw Cheng Lim).
6. Opportunity Lost? Revisiting *RecordTV v MediaCorp TV*, Singapore Academy of Law Journal 2012 Vol. 24, p.16-59 (with Saw Cheng Lim).
7. Paying It Forward: The Case For A Specific Statutory Limitation On Exclusive Rights For User-Generated Content Under Copyright Law, The John Marshall Review of Intellectual Property Law 2011 Vol. 11 Iss. 2, p.240-294.

8. Where Copyright Law and Technology Once Again Cross Paths - The Continuing Saga: RecordTV Pte Ltd v MediaCorp TV Singapore Pte Ltd [2011] 1 SLR 830, Singapore Academy of Law Journal 2011 Vol. 23, p.653-681 (with Saw Cheng Lim).
9. The Google Conundrum: Perpetrator or Facilitator on the Net? - Forging a Fair Copyright Framework of Rights, Liability and Responsibility in Response to Search Engine 2.0, Part II: The Google Books Search Project, Computer Law & Security Review 2011 Vol. 27 Iss. 4, p.331-347.
10. The Google Conundrum: Perpetrator or Facilitator on the Net? - Forging a Fair Copyright Framework of Rights, Liability and Responsibility in Response to Search Engine 2.0, Part I: The Google Images Search Engine, Computer Law & Security Review 2011 Vol. 27 Iss. 2, p.111-132.
11. 'Customary Internet-ional Law': Creating a Body of Customary Law for Cyberspace. Part II: Applying Custom as Law to the Internet Infrastructure, Computer Law & Security Review 2010 Vol. 26 Iss. 2, p.185-202.
12. 'Customary Internet-ional Law': Creating a Body of Customary Law for Cyberspace. Part I: Developing Rules for Transitioning Custom into Law, Computer Law & Security Review 2010 Vol. 26 Iss. 1, p.3-22.
13. Lord of Your Domain, But Master of None: The Need to Harmonize and Recalibrate the Domain Name Regime of Ownership and Control, International Journal of Law and Information Technology 2008 Vol. 16 No. 1, p. 8.
14. Better a Sword than a Shield: The Case for Statutory Fair Dealing/Use Right as Opposed to a Defence in the Light of the Disenfranchising Effect of Digital Rights Management and Anti-Circumvention Laws, International Journal of Private Law 2008 Vol. 1 Nos. 1/2, p. 157.
15. Harassment through Digital Media: A Cross-Jurisdictional Comparative Analysis on the Law on Cyberstalking, Journal of International Commercial Law and Technology 2008 Vol. 3 No. 1, p. 1-12.
16. Taking Stock of the Creative Commons Experiment: Monitoring the Use of Creative Commons Licenses and Evaluating Its Implications for the Future of Creative Commons and for Copyright Law, TPRC Accepted Paper Series 2007 (with Giorgos Cheliotis, Ankit Guglani, Giri Kumar Tayi).
17. The Case for Sports Law Arbitration and Practice in Singapore, Singapore Academy of Law Journal 2007 Vol. 19 Part II, p. 267-294.
18. The Lion, the Dragon and the Wardrobe Guarding the Doorway to Information and Communications Privacy on the Internet: A Comparative Case Study of Hong Kong and Singapore – Two Differing Asian Approaches, International Journal of Law and Information Technology 2005 Vol. 14 No. 1, p. 47.

19. Proposed Anti-Spam Legislation Model in Singapore – Are We Losing the War Before Even Starting the Battle?, Singapore Academy of Law Journal 2005 Vol. 17 Part II, p. 747-792.
20. US Jurisdictional Rules of Adjudication over Business Conducted via the Internet – Guidelines and a Checklist for the E-commerce Merchant, Tulane Journal of International & Comparative Law 2002 Vol. 10, p. 243-305.
21. Legal Implication of Airline Alliances, Singapore Academy of Law Journal 2001 Vol. 13 Part II, p. 296-322 (reprint).
22. Legal Implication of Airline Alliances, Journal of Aviation Management 2000, p. 9-32.

### **III. Other Legal Publications (e.g. Law Gazette articles and trade publications)**

1. Coronavirus: Pandemics, Artificial Intelligence and Personal Data, Singapore Law Gazette, May 2020.
2. Fact or Fake News: The “Role of Law” for Data Accuracy, Singapore Law Gazette, June 2017 (reported again in Today, 28 June 2017).
3. How Can Smart Nation Singapore Better Prepare for Digital Warfare?, 3 June 2017, Channel NewsAsia Commentary.
4. Honing Personal Data Protection, 13 September 2017, Business Times Opinion.
5. The Singapore Do Not Call Register and the Text and Fax Exemption Order, Singapore Law Gazette, March 2014.
6. The Future of Digital Lockers, Singapore Law Gazette, April 2012 (3).
7. Data Protection Laws and Marketing Practices, Singapore Law Gazette, September 2011 (1).
8. Online Gaming and Singapore, Law Reform Commission Report 2010 (with Joyce Tan, Aqbal Singh, Lim Yee Fen and Wan Wai Yee).
9. Internet Intermediaries and Copyright Law in Singapore, Singapore Law Gazette, April 2010 (3) (with David Yong).
10. The Politics and Economics of the Beijing Olympics, Singapore Law Gazette, July 2008 (with Andrew Sim).
11. License to Share – The Ugly Side of Creative Capitalism and the Irony of the Commons, Singapore Law Gazette July 2007 (3).

12. Phishing with a Poisoned Bait – Computer Fraud and Identity Theft, Singapore Law Gazette January 2007 (1).
13. Bloggers Beware – The Five Commandments for Bloggers, Singapore Law Gazette November 2005 (1).

### **Presentation History:**

1. Legal Issues Relating to the Development and Deployment of Generative A.I., held by the AGC-Legal Service Academy, 26 January 2024.
2. The Computer Misuse Act and Beyond: Developments in the Law on Computer Crimes, Cybercrime and Identity Theft - How Legislation is Keeping Up, held by the AGC-Legal Service Academy, 4 August 2023.
3. The Metaverse and the Law of the Horse? held by the AGC-Legal Service Academy, 3 November 2022.
4. Specialist Accreditation Scheme: Data and the Digital Economy held by the Singapore Academy of Law, 20 August 2022.
5. Rethinking Privacy for the Metaverse, held by the IAPP Asia Forum, 21-22 July 2022.
6. Ethics of Artificial Intelligence and the Role of the Law, held by the AGC-Legal Service Academy, 25 April 2022.
7. SMU Executive Development Certificate on AI & ML: Strategies and Frameworks for Decision-Making, 2022- (presenter).
8. SMULA-SCCA Executive Certificate in Technology Law for In-House Counsels, 2022- (presenter).
9. Digital Trust and the Law in Singapore, held by Huawei and GovInsider, 24 November 2021 (presenter).
10. Barun Asia Privacy Bridge Forum 2021 held by Barun ICT Centre, Yonsei University, 11-12 November 2020 (commentator).
11. Data Privacy and Data Protection in the Era of A.I.: A Sectoral Dialogue 6 July 2021 (roundtable); (zoom session held by CAIDG) (as convener, presenter and moderator).
12. Data Governance to Address Emerging Exploitation Risks held by MCI & PDPC, 8 June 2021 (presenter).
13. Workshop on RIE 2025 on Strategic Areas for Digital Trust held by IMDA on 2 June 2021.

14. Primer Series: Leading Issues in Law and Technology - Privacy and Data Protection Law held by The SMU Law Academy on 9 April 2021.
15. Joint-PDPA Amendment Bill held by SMU Alumni Association and Ensign on 13 January 2021.
16. Barun Asia Privacy Bridge Forum 2020 held by Barun ICT Centre, Yonsei University, 13-14 November 2020 (commentator).
17. Joint-PDPA Amendment Bill held by SOL Alumni Association and Ensign Singapore, 13 January 2021 (presenter).
18. Disrupting Data Injustices II: A Covid-19 Virtual Roundtable (zoom session held by CAIDG), 10 November 2020.
19. CIL-ILA eSeminar on Data Privacy and Protection in International Law (zoom session held by CIL-ILA), 5 October 2020 (presenter).
20. SMULA-SAL Upcoming Amendments to Singapore's Personal Data Protection Act (zoom session held by SMULA-SAL), 28 July 2020 (presenter).
21. Law Specialist Insight Series on Information and Communications Technology and the Law (zoom session held by Singapore Academy of Law), 21 July 2020 (presenter).
22. Data Privacy and Data Protection in the Era of A.I.: A Sectoral Dialogue February 2020 (roundtable); (zoom session held by CAIDG), 6 August 2020 (seminar) (as convener, presenter and moderator).
23. Artificial Intelligence and Data Protection in Singapore Podcast, SMU Engage, 24 April 2020.
24. Ethics, AI and Covid-19 Consortium Meeting held by TUM, 1 April 2020.
25. NRF Townhall Meeting on the Role of AUs in RIE2025 held by NRF, 12 March 2020.
26. CAIDG-SIS Roundtable 6 March 2020.
27. Data Privacy and Data Protection Role in A.I. Governance at the Asian Dialogue on A.I. Governance, CAIDG, SMU, 16 January 2020.
28. International Alliance for a Human-Centric Approach to Artificial Intelligence (zoom session held by The Future Society), 6 January 2020.
29. Artificial Intelligence and Data Protection in Singapore: Consumers' Trust, Organizational Security and Government Regulation at the A.I. and Commercial Law Conference, CAIDG, SMU, 5-6 December 2019 (presenter).
30. Artificial Intelligence: Regulatory Challenges Podcast, SMU Engage, 28 August 2019.



31. Personal Data Protection in an Era of AI and Big Data Analytics, at the Privacy Global Edge 2019 and Asia Privacy Bridge Forum 2019, Barun ICT Centre, Yonsei University, Spring 2019 (keynote speaker).
32. Challenges of Big Data to the Law: The European and Asian Experience and Perspectives at the Confronting Modernity's Challenges to Law and Society, City University of Hong Kong, 7-8 January 2019 (presenter).
33. The Singapore PDPA – The First 4 years and Beyond as a SMU Law Academy Seminar, SMU, 9 November 2018.
34. The GDPR and Singapore's Cybersecurity Laws at the LawSoc Cybersecurity Conference, 19 July 2018 (panelist).
35. Panel 3 on Fake News and Internet Intermediaries at the Global Technology Law Conference, 4-6 April 2018 (panelist, presenter and rapporteur).
36. Panel 1 on Technology Regulations and Smart Contracts at the Global Technology Law Conference, 4-6 April 2018 (session chair/moderator).
37. Blockchain Immutability: Lessons from Torrens Indefeasibility 12 January 2018 (session chair/moderator).
38. Data Analytics and Artificial Intelligence in Law: Implications for Intellectual Asset Management Practice at the ARCIALA Lecture, 3 November 2017 (commentator).
39. Technological Challenges for Privacy at the CEBCLA Future of Law Conference: The Internet of Things, Smart Contracts and Intelligent Machines, 26-27 October 2017 (session chair/moderator).
40. Personal Information Protection Law in Singapore at the 3<sup>rd</sup> Asia Privacy Bridge Forum: Redressing Privacy Right Across Borders, Barun ICT Centre, Yonsei University, Spring 2017 (presenter).
41. Updates on Technology Law in Singapore at the Singapore Corporate Counsel Association (SCCA) Competency Framework Series, 17 May 2017 (presenter).
42. Intellectual Property and Private Information at the Protecting Business and Economic Interests: Contemporary Issues in Tort Law Conference, Supreme Court Auditorium, 19 August 2016 (session chair).
43. UAVs: Technology Takes Flight, But Where are the Legal No Fly Zones? at the Global Technology Law Conference 2015.
44. The Scope of the Data Protection Regime and the Implementation of the Do Not Call Regime under the Singapore Personal Data Protection Act as a Continuing Legal Education Seminar, SMU, 5 August 2014.

45. Latest Trends in Data Privacy and the Singapore Personal Data Protection Act as a Continuing Legal Education Seminar, SMU, 26 February 2013 & 26 February 2014.
46. The Singapore Personal Data Protection Bill and an Assessment of Future Trends in Data Privacy Reform at the 7th the International Conference on Legal, Security and Privacy Issues in IT, Athens, Greece, 2 October 2012.
47. SMU Law at CJC, 3 August 2012; NYJC 17 February 2014 & ACJC 31 July 2014.
48. Cybercrimes and Computer Misuse Act at the Whitehat Society, SMU, 5 January 2012.
49. IT Law Classroom Pedagogy at the CTE Teaching Innovation, SMU, 9 September 2011.
50. The Google Conundrum: Facilitator or Enabler? - Forging a Fair Copyright Framework for New Intermediaries at the 5th International Conference on Legal, Security and Privacy Issues in IT, Barcelona, Spain, 5 November 2010 (session chair).
51. Issues and Developments in IT and IP Law, Infocomm & Technology Committee Meeting, American Chamber of Commerce, 22 April 2010.
52. Customary Internet-ional Law: Creating a Body of Customary Law for Cyberspace at the 4<sup>th</sup> International Conference on Legal, Security and Privacy Issues in IT, Malta, 5 November 2009 (*Best Academic Paper Award*) (session chair).
53. Designing a Course in IT and the Law, Teaching Forum, Singapore Management University, 11 December 2007.
54. Harassment through Digital Media: A Cross-Jurisdictional Comparative Analysis on the Law on Cyberstalking, at the 2<sup>nd</sup> International Conference on Legal, Security and Privacy Issues in IT, Communications University of China, 6 December 2007.
55. Better a Sword than a Shield: The Case for Statutory Fair Dealing/Use Right as Opposed to a Defence in the Light of the Disenfranchising Effect of Digital Rights Management and Anti-Circumvention Laws, at the 2<sup>nd</sup> International Conference on Legal, Security and Privacy Issues in IT, Communications University of China, 6 December 2007.
56. The Creative Commons, E-Learning Standards Seminar, Singapore Institute of Management, 26 October 2007.
57. Taking Stock of the Creative Commons Experiment: Monitoring the Use of Creative Commons Licenses and Evaluating Its Implications for the Future of Creative Commons and for Copyright Law (with Giorgos Cheliotis), at the 35<sup>th</sup> Annual Telecommunications Policy and Research Conference, George Mason University School of Law, 29 September 2007.

58. Commentary on Electronic Commerce and the Challenge of Technology, at the Journal of Contract Law Conference, 29 September 2006.
59. Challenges to Criminal Law Making in the New Global Information Society: A Critical Comparative Study of the Adequacies of Computer-Related Criminal Legislation in the United States, the United Kingdom and Singapore, at the VI Computer Law World Conference, Edinburgh University School of Law, 6-8 September 2006.
60. International Law & the Law of the Sea, at the Singapore Police Coast Guard, August 2003.
61. International Terrorism Laws & Singapore Terrorism Laws, at Foreign Lawyers Speaker Series, Tulane Law School, October 2002.
62. Terrorism & International Law, at the ALSA, NUS Law School, June 2002.
63. Codesharing Liability Issues, at IE Singapore, 30 April 2002.
64. Singapore Law & Legal System, Foreign Lawyers Speaker Series, Tulane Law School, May 2001 (chairman).
65. Legal Implications of Global Air Alliances, at the Singapore Air Conference, 27 June 2000.
66. The WTO/EC Trade Defense Instruments, at the Attorney-General's Chambers Singapore, 6 February 1999.

### **Research Grants:**

1. AISG Grant for project titled "Towards Trustable Model-Centric Sharing for Collaborative Machine Learning" (1 April 2021 – 31 March 2025)(Co-PI)
2. IMDA-NRF Grant for Centre and projects relating to "AI and Data Governance" (October 2018-September 2023)(Co-PI)
3. SMU Societal Challenge Capacity Building Fund for project titled "AI and Fake News: Law and Society" (July 2018 -March 2019)(Lead-PI)

### **Subjects Taught:**

1. Information and Communications Technology and the Law (LLB, JD)
2. Global and Asian Trends in ICT Law (LLM)
3. Privacy and Personal Data Protection Law (LLB, JD)
4. Singapore Business Law