ALGORITHMS AND THE LAW

 \mathbf{O}

BIAS & PRIVACY ILANZ 9 MAY 2019

JOY.LIDDICOAT@OTAGO.AC.NZ

LEARNING OBJECTIVES

- understand concepts and definitions of artificial intelligence and algorithms
- learn the legal issues that can arise where algorithms are being used and understand the legal issues that may arise for in-house counsel
- have an overview of applicable law (including New Zealand case law)

ALGORITHMIC BIAS

Concepts of bias

- Lawyers: bias in administrative and human rights law
- Statisticians: selection bias
- Algorithmic bias: extrinsic and intrinsic



BIAS & DEFINING "FAIR"

• Diverse algorithmic definitions of 'fairness' (Corbett-Davies et al 2017)

- "anti-classification" leave out certain classifiers e.g. gender and race
- "classification parity" common measures of predictive performance are equal across all groups
- "calibration" outcomes are independent after controlling for estimated risk
- Concepts of fairness in law
 - Human Rights Act
 - Bill of Rights Act R v Hansen

PRIVACY: PERSONAL INFORMATION

- Machine learning and re-purposing data, collection and consent
- Using de-identified data sets to create anonymous profiles
- Re-identification
- Use of data sets

ISSUES IN PRACTICE

- Policy development and service design
- Contracting for new services and products
- Which agency holds or controls the data for purposes of Privacy Act?
- Access, correction, accuracy and deletion of personal information
- Requests for information

CASE LAW AND COMMENTARY

- Naidu v Australasian College of Surgeons [2018] NZHRRT 234
- Glazebrook J "Risky Business: Predicting Recidivism" (2010) 17(1) Psychiatry, Psychology and Law 88
- J v Care Coordinator [2018] NZHC 1209 Cull J on risk assessment tools, citing R v Peta [2007] NZCA 2 NZLR 627 with approval
- Ewert v Canada [2018] SCC 30

NEW / EMERGING ISSUES

- Correcting bias eg diversify training sets?
- Status of inferred data and right to reasonable inferences
- New tools
 - Ministry of Social Development: Privacy, Human Rights and Ethics
 - Principles for safe and effective data use, privacy/algorithmic impact assessments
- Regulatory concerns and law reform

FURTHER READING

- Algorithmic Assessment Report (2018) Department of Internal Affairs and Statistics NZ
- Liddicoat, Gavaghan, Knott, Maclaurin & Zerilli "The use of algorithms in the New Zealand public sector" (2019) New Zealand Law Journal 27