

# CAIDE END OF YEAR REPORT

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JANUARY TO  
DECEMBER



THE UNIVERSITY OF  
MELBOURNE

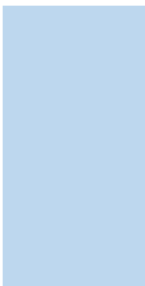


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The Dangerous Power of Speculation by Lucy West played at We, the Robots? Event with Professor Simon Chesterman

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# A YEAR IN NUMBERS

1 Oration  
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2 *Vaccines*  
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4 Internships  
4 *Lockdowns*  
5 Seed Funded Projects  
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8 Research Projects  
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10 Blog Posts  
31 Talks and Panel Discussions  
12 Journal Articles  
56 Affiliated Researchers  
377 Students  
1708 Newsletter Subscribers  
2672 Twitter Followers  
3000+ Event Registrations

# NINIAN STEPHEN LAW PROGRAM: NEW LEGAL THINKING FOR EMERGING TECHNOLOGIES?

## MENZIES FOUNDATION

In 2021 CAIDE was gifted a Menzies Foundation research grant for a four-year project, *Ninian Stephen Law Program: New Legal Thinking for Emerging Technologies*. The project is a collaboration between the Melbourne Law School and the School of Computing and Information Systems.

The project will be led by Professor Jeannie Paterson, Professor Tim Miller, Professor Lars Kulik and Associate Professor Atif Ahmad.



Dr Fahimeh Abedi

## Ninian Stephen Law Program Oration

Thursday 21 October

As the official launch of this project was cancelled due to the COVID19 Pandemic, CAIDE hosted an Oration and Launch with Dr Cathy Foley, Chief Scientist of Australia and Michelle Price, CEO of AustCyber. The launch was opened by artwork from Madeleine Flynn and Tim Humphries titled 'THERE IS NO POINT OF NO RETURN', and the Vice Chancellor of the University of Melbourne delivered opening remarks.

The event was attended by approximately 80 people. The full event can be viewed [here](#).



## Welcoming

Dr Fahimeh Abedi  
Research Fellow for the Ninian  
Stephen Law Program Oration

Fahimeh has conducted research and taught in Australia and Malaysia for over ten years and has a strong research background on the intersection of law and artificial intelligence. During her PhD research 'Universal Standards for the Concepts of Fairness, Trust and Security in Online Dispute Resolution in B2CE-disputes', she developed new standards and regulatory frameworks for online dispute resolution systems that have been cited and published by odr.info, the primary social, scientific, and academic network.

She has worked in different law and business schools such as La Trobe University, Deakin University, Victoria University, Southern Cross University, Torrens University Australia and National University of Malaysia (UKM). Fahimeh has extensive research experience in designing and conducting qualitative and quantitative research and has published widely in international journals and publication outlets. Her research interests lie broadly in online dispute resolution, cyber security law, ethics of AI decision-making, access to justice and consumer dispute resolution.

# RESEARCH

4 CONFERENCES PAPERS  
5 SEED FUNDING PROJECTS  
8 RESEARCH PROJECTS  
12 JOURNAL ARTICLES

## GRANT :

**Questioning the chatbot: Scrutinising the performance of telco customer service chatbots in terms of service, transparency, safety, privacy and security.**

This is a new project funded by the Australian Communications Consumer Actions Network (ACCAN). The research team comprises Professor Jeannie Paterson, Professor Reeva Lederman, Dr Simon Coghlan and Dr Yvette Maker.

## 2021 SEED FUNDING:

**We received 10 proposals in our seed funding round, many of a high calibre.**

The projects we funded were:

- *Tracking kids: Use and Repurposing of Wearable and Mobile Devices* led by Dr Bjorn Nansen (Arts) and Prof Martin Gibbs (FEIT)
- *Looking into the Psychiatric Panopticon: Ethical, Legal and Social Issues of Automated Nursing Observations in Acute Psychiatric Settings* led by Dr Piers Gooding (Law) and Dr Simon D'Alfonzo (FEIT)
- *Physical Place, Digital Space, and the Pervasive Devices that Bind Them: Understanding our Ever-Connected World* led by Dr Aleksandra Michalewicz (MDAP/Chancellery/Arts) and Dr Marc Cheong (FEIT).

# RESEARCH STREAMS

As the number of research projects grow, and our areas of focus narrow, we have created several research streams to reflect the bodies of work we are undertaking.

## AI IN PRIVATE SPACES

This research stream considers the ethics and law of AI in private spaces. This includes monitoring technologies for remote work, AI assistants, AI tools in healthcare, family tracking technologies, and care robots.

### CAIDE Projects

- [Questioning the Chatbot](#)
- [Mind your Business: Surveillance Technologies for workplace safety and wellbeing](#)
- [AI in the Home: The ethics and law of consumer protection for smart devices](#)

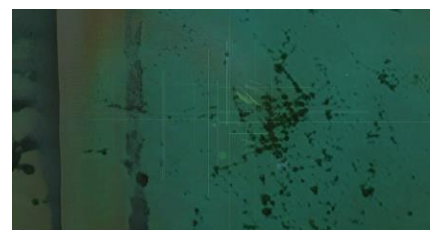
### Seed Funding Projects

- [Tracking kids: Use and repurposing of wearable and mobile devices](#)
- [Looking into the Psychiatric Panopticon: Ethical, Legal and Social Issues of Automated Nursing Observations in Acute Psychiatric Settings](#)
- [Physical place, Digital Space and the pervasive devices that bind them: understanding our ever-connected world.](#)

## ART, AI AND DIGITAL ETHICS (CAIDE AAIDE)

CAIDE AAIDE is a research collective for academics, artists and art professionals dedicated to the research and practice of digital technologies, art and ethics. The group was founded by curator and researcher Vanessa Bartlett, with Gabby Bush, Kristal Spreadborough and Tyne Daile Sumner.

In 2021 CAIDE AAIDE hosted a seed funding round and supported artists at the beginning of CAIDE events (see screenshots to the right).



THERE IS NO POINT OF NO  
RETURN by Madeleine Flynn  
and Tim Humphries

Other research streams include:

THE ETHICS OF AI IN HEALTHCARE

EDTECH

AI-ASSISTED DECISION MAKING

ANIMALS AND AI

# POLICY PAPERS

## 4 Policy Submissions

As part of using our research to enact change, the CAIDE team along with several affiliated researchers, wrote policy submissions in calls from government. The policy submissions were quoted and cited in the outcome papers.

### Attorney General's Privacy Act Review

CAIDE researchers and affiliates prepared a first submission for the Privacy Act Review in 2021. The submission included considerations of AI and data, Automated Decision-Making, consent, disclosure, enforcement and design. The submission was quoted 3 times and cited 37 times in the Attorney General's discussion paper. CAIDE was invited to write a second submission for the next round in 2022.

The report was prepared by Adam Lidders, *Former* Academic and Research Programs Manager.

With contributions from:

- Karin Clark, Senior Fellow, (MLS)
- Dr Chris Culnane, Honorary Fellow, (CIS)
- Kobi Leins, Senior Research Fellow in Digital Ethics, (CIS)
- Prof Jeannie Paterson, Co-Director
- A/Prof Mark Taylor, (MLS)
- Prof Megan Richardson, (MLS)

### OTHER SUBMISSIONS

- **Digital Advertising Services Inquiry**  
Australia Competition & Consumer Commission.  
By Professor Jeannie Paterson
- **Digital Identity Legislation** Digital Transformation Agency.  
By Dr Megan Prictor, Professor Mark Taylor and Gabby Bush
- **Civil Society Questionnaire to Inform the Special Rapporteur on the Rights of Persons with Disabilities' Thematic Report on Artificial Intelligence and Disability.** By Dr Yvette Maker, Dr Piers Gooding, Dr Sue Olney, Ms Kirsten Deane, Gabby Bush and Professor Jeannie Paterson.

# TEACHING

CAIDE teaches a range of subjects across our member faculties. Since our inception in March 2020, we have taught over 500 students, more than 350 of these in 2021.

**THE ETHICS OF ARTIFICIAL INTELLIGENCE**  
Master of Computer Science (COMP90087)

169 Students

**AI, ETHICS AND THE LAW**

Law Breadth Subject (LAWS10009)

136 Students

**NEW TECHNOLOGY LAW**

Law Masters (LAWS90107)

35 Students

**AI AND CONSUMER PROTECTION LAW**

Law Masters (LAWS90165)

28 Students

In 2022 CAIDE will teach *Science and AI: Legal and Ethical Challenges* in the Science Masters Program.

"Just completed the inaugural Centre of AI and Digital Ethics' Masterclass on Demystifying AI Ethics. An excellent program over two days with a fantastic group of people from a wide range of backgrounds including computer science, strategic design, cyber security, medicine, ethics, data governance and law. Congratulations CAIDE on a fascinating discussion"

*Deidre Willmott, Non-executive Director, Aust. Post, Previous Participant*

## DEMYSTIFYING AI ETHICS MASTERCLASS 7 & 8 OCTOBER

Professional education is an important part of CAIDE's outreach and teaching work, as many professionals and organisations are looking to learn more about AI Ethics. In October, CAIDE hosted an extremely bright and engaged group (ranging from professional ethicists to lawyers, company directors and physicians) for our Inaugural Masterclass in Demystifying AI Ethics. Despite the required pivot to an online format, discussions were lively, and according to the extremely positive feedback we received during and after the class, extremely informative (all feedback rated the class as excellent; one participant did say that their head exploded, but in a good way 😊).

# INTERNSHIPS

Each semester CAIDE offers the opportunity for undergraduate students to work with the CAIDE team through the Faculty of Science's Work Integrated Learning Program or the Faculty of Art's Internship program. Student receive credits for their internships and work one day a week at CAIDE. Interns learn the process and skills of writing grant proposals, research dissemination and work with CAIDE researchers on current projects.

## OUR INTERNS



Liam Harding  
Faculty of  
Science



Carmelina  
Contarino  
Faculty of Arts



Lucy Wiseman  
Faculty of Arts



Mariam Nadeem  
Faculty of Arts

In February, our first intern, Mariam Nadeem had been looking into the regulation of Digital Platforms – just as Facebook (now Meta) made the controversial move to remove all Australian news from the site in response to the Digital Platforms Inquiry, and the requirement for platforms to remit some of their advertising revenue to news sites. Mariam co-authored this piece '[Australia vs Facebook: Regulating the Market of Attention](#)' with Gabby Bush, Dana McKay and Jeannie Paterson on the UniMelb platform *Pursuit*. The story was shared widely due to its timely publication.

For Carmelina, Liam and Lucy's internship we focused on the skills behind writing a grant proposal. In order to practice these skills, these interns wrote the blueprint for a proposal on surveillance and monitoring technology for workplace safety and wellbeing, in the Melbourne Law School's Research Excellence funding round.

We were delighted that this proposal was successful, and we were awarded \$8,372 for the project now titled [Mind Your Business: Surveillance Technologies for Workplace Safety and Wellbeing](#).

# ENGAGEMENT

2 Workshops

10 Events

## EMERGING TECH AND LAW LEADERS' FORUM

As part of the *Ninian Stephen Law Program*, CAIDE along with our Steering Committee Kendra Fouracre (KWM,) Hannah Glass (KWM,) and Kit Mun Lee (Corrs.) established the Emerging Tech and Law Leaders Forum to host discussions with emerging leaders working on issues of law and technology in industry. The events consist of a talk followed by a Q&A and group discussions. This year we hosted Professor Sandra Wachter from the Oxford Internet Institute and Professor Simon Chesterman from the National University of Singapore.

## FRIENDS OF CAIDE



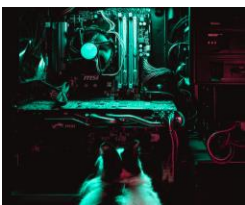
This year we hosted two events to discuss the new books friends of CAIDE had published – Dr Ryan Abbott to talk about *The Reasonable Robot: Artificial Intelligence and the Law*, and Professor Simon Chesterman to speak about *We, the Robots?: Artificial Intelligence and the Limits of the Law*.

*From top – Professor Ryan Abbott, Professor Simon Chesterman, Professor Sandra Wachter.*

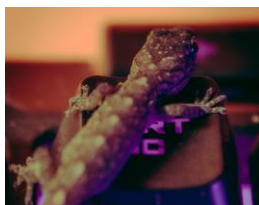
## TECHNOLOGY AND THE WORLD AROUND US

### SEMINAR SERIES

As the main series of events in 2021 CAIDE hosted four panel discussions with CAIDE researchers and friends to discuss topics of technology and AI Ethics. The researchers presented their work and thinking behind issues of technology in everyday life. The events were co-hosted with centres and institutes we collaborate with. All event recordings can be viewed [here](#).



Art, Literature and AI: Understanding human experience, expression and emotion in the datafied age  
*With CAIDEAAIDE*



Animals, Ethics and Technology: Towards digital rights for animals  
*With the Animal Welfare Science Centre*



The Challenges of Automated Decision-Making in Healthcare  
*With the Centre for Digital Transformation of Health*



Technology Facilitated Abuse and Digital Ethics  
*With the Melbourne Social Equity Institute*

# ENGAGEMENT

8 Media Articles

10 Blog Posts

In 2021 we encouraged many of our junior researchers to publish their work on our blog – this included our interns, students from AI, Ethics and the Law and many of the cohort from our 2020-2021 Summer Research Academy.

Some highlights were:

- [Machines, Artificial Intelligence and rising global Transphobia](#) by Jean Linis-Dinco from the CAIDE Summer Research Academy
- [Autonomous Weapon Systems: Friend or Foe?](#) By Samuel Roussos from AI, Ethics and the Law
- [The Reckoning of Big Tech](#) by Liam Harding, Intern and Research Assistant
- [Abu Ghraib and Witches: What Might for Wrong If We Let AI Predict Violence from Images](#) by Emma Ahmed-Rengers, CAIDE Summer Research Academy



['Are robots the answer for aged care during pandemics?'](#) Simon Coghlan and Gabby Bush, Pursuit, 28 July 2021.

## GOOGLE , FACEBOOK AND THE GOVERNMENT

The CAIDE team has written on the policy changes and legal battles over digital platforms in Australia and beyond throughout 2021.

- ['Privacy erosion by design: why the Federal Court should throw the book at Google over location data tracking.'](#) Jeannie Paterson and Elise Bant, The Conversation, 19 April, 2021. '
- ['Australia vs Facebook: Regulating the Market of Attention'](#) Mariam Nadeem, Gabby Bush, Dr Dana McKay and Jeannie Paterson, Pursuit, 18 February 2021.
- Marc Cheong [spoke to the New York Times](#) about the NewsCorp and Facebook agreement to resolve their news dispute
- ['Trump, Nipples and the Hypocrisy of Social Media Giants'](#) Gabby Bush, Mariam Nadeem, Marc Cheong, Kobi Leins and Simon Coghlan published in Pursuit, 28 January 2021.

# PEOPLE

At the end of 2021 the contracts of two of our original Senior Research Fellows in Digital Ethics, Dr Simon Coghlan and Dr Marc Cheong came to an end, however, we were absolutely delighted that they remain at the University of Melbourne and with CAIDE.



## **Congratulations to Dr Simon Coghlan for his new role as Lecturer in Digital Ethics at the School of Computing and Information Systems.**

This role allows Simon to continue working with CAIDE and to teach the CAIDE subjects, AI, Ethics and the Law and The Ethics of Artificial Intelligence. Simon will also continue to research with CAIDE, including leading our research streams the Ethics of AI in Healthcare and Animals and AI.

Congratulations to Dr Marc Cheong who has taken an ongoing position at the School of Computing and Information Systems as a Senior Lecturer in Information Systems (Digital Ethics.)

We thank Simon and Marc for their hard work and delightful comradery while they worked with us in their previous roles.

## **And we bid a farewell to Dr Yvette Maker, our Research Manager and Senior Research Fellow**



Yvette has left CAIDE (and Victoria!) to take up an ongoing role at the University of Tasmania in the Faculty of Law. We thank Yvette for her hard work at CAIDE, particularly for championing our AI and Disability Research as well as hosting our CAIDE Summer Research Academy. Congratulations to Yvette on her new appointment, UTas is very lucky to have her.

**WE ADDED 38 NEW RESEARCHERS TO  
OUR CAIDE COMMUNITY**



## A FINAL NOTE

Despite spending much of our time at home, CAIDE has still had an exciting and fruitful year with many new research connections and promising new projects. Our team has grown, and we were delighted to spend the last few months in our office, with our PhD students and friends from the School of Computing and Information Systems.

We would like to thank everyone for their continued interest and support, especially to Professor Mark Cassidy and Professor Pip Nicholson who championed our new project with the Menzies Foundation as well as giving their ongoing support to CAIDE and all our work. Thank you to our steering committee, our researchers and research assistants and most importantly to Gabby Bush, Yvette Maker, Michael Wildenauer and Tyne Sumner for keeping the centre going, especially in another challenging year.

We look forward to continuing our research and expanding our reach further in 2022.

Best wishes,  
Professor Jeannie Paterson and  
Professor Tim Miller  
Co-Directors CAIDE

# APPENDIX

## 1. Publications

### Journal Articles

- Coghlan, S., D'Alfonso, S. Digital Phenotyping: an Epistemic and Methodological Analysis. *Philos. Technol.* **34**, 1905–1928 (2021). <https://doi.org/10.1007/s13347-021-00492-1>
- Coghlan, Simon, Jenny Waycott, Amanda Lazar, and Barbara Barbosa Neves. 2021. Dignity, Autonomy, and Style of Company: Dimensions Older Adults Consider for Robot Companions. *Proc. ACM Hum.-Comput. Interact.* **5**, CSCW1, Article 104 (April 2021), 25 pages. DOI: <https://doi.org/10.1145/3449178>
- Coghlan, S. Robots and the Possibility of Humanistic Care. *Int J of Soc Robotics* (2021). <https://doi.org/10.1007/s12369-021-00804-7>
- Coghlan, Simon, Tim Miller and Jeannie Paterson. (2021). Good Proctor or "Big Brother"? Ethics of Online Exam Supervision Technologies. *Philosophy and Information Technology*. DOI: <https://doi.org/10.1007/s13347-021-00476-1>
- Coghlan, S., Webber, S., & Carter, M. (2021). Improving ethical attitudes to animals with digital technologies: the case of apes and zoos. *Ethics and Information Technology*, **23**(4), 825-839. <https://doi.org/10.1007/s10676-021-09618-7>
- Miller, T. Contrastive Explanation: A Structural-Model Approach. 2021. *Knowledge Engineering Review*, **36**: E14. <https://arxiv.org/pdf/1811.03163>
- Paterson, J., Bush, G. and Miller, T. (2021) "Transparency to contest differential pricing." *Computer and Law: Journal for the Australian and New Zealand Societies for Computers and the Law*. **93**(49). <http://classic.austlii.edu.au/au/journals/ANZCompuLawJl/2021/13.html>
- Paterson, J., Chang, S., Cheong, M., Culnane, C., Dreyfus, S. and McKay, D 2021, 'The Hidden Harms of Targeted Advertising by Algorithm and Interventions from the Consumer Protection Toolkit,' *International Journal on Consumer Law and Practice*, vol.9 pp. 1-24. <http://hdl.handle.net/11343/295889>
- Paterson, Jeannie, Elise D. Bant, Henry Cooney. (2021) Australian Competition and Consumer Commission v Google: Detering Misleading Conduct in Digital Privacy Policies. *Communications Law - Journal of Computer, Media and Telecommunications Law*, vol.26, no.3, pp. 136-148. <https://dx.doi.org/10.2139/ssrn.3973199>
- Paterson, Jeannie and Mark Taylor "Protecting Privacy in India: The roles of consent and fairness in data protection" (2021) **16**(1) *The Indian Journal of Law and Technology*.
- Quinn, T. P., Senadeera, M., Jacobs, S., Coghlan, S., & Le, V. (2021). Trust and medical AI: the challenges we face and the expertise needed to overcome them. *Journal of the American Medical Informatics Association*, **28**(4), 890-894. <https://doi.org/10.1093/jamia/ocaa268>
- Quinn, Thomas P., Stephan Jacobs, Manisha Senadeera, Vuong Le, Simon Coghlan. (2021). The Three Ghosts of Medical AI: Can the Black-Box Present Deliver? *Artificial Intelligence in Medicine*. DOI: <https://doi.org/10.1016/j.artmed.2021.102158>.

### Conference Papers

- Alon Jacovi, Ana Marasovic, Tim Miller and Yoav Goldberg, 'Formalizing Trust in Artificial Intelligence: Prerequisites, Causes and Goals of Human Trust in AI' FAccT '21: Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency March 2021, pp 624-635 <https://doi.org/10.1145/3442188.3445923>
- Lyons, H.; Velloso, E.; and Miller, T. 'Conceptualising Contestability: Perspectives on Contesting Algorithmic Decisions.' In Proceedings of the Computer-Supported Cooperative Work (CSCW 2021), 2021. <https://dl.acm.org/doi/10.1145/3449180>
- Ronal Singh, Upol Ehsan, Marc Cheong, Mark O. Riedl and Tim Miller, 'LEx: A Framework for Operationalising Layers of AI Explanations.' ACM CHI Workshop on Operationalizing Human-Centered Perspectives in Explainable AI, March 2021. <https://arxiv.org/pdf/2104.09612.pdf>
- Marc Cheong, Kobi Leins and Simon Coghlan, 'Computer Science Communities: Who is Speaking, and Who is Listening to the Women? Using an Ethics of Care to Promote Diverse Voices' FAccT '21: Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency March 2021 Pages 106-115 <https://doi.org/10.1145/3442188.34458742>

## 2. Media pieces

- '[Artificial intelligence is now part of our everyday lives – and its growing power is a double-edged sword.](#)' Liz Sonenberg and Toby Walsh (UNSW.) The Conversation, 11 October 2021.
- '[Are robots the answer for aged care during pandemics?](#)' Simon Coghlan and Gabby Bush, Pursuit, 28 July 2021.
- '[TikTok captures your face](#)' Niels Wouters and Jeannie Paterson, Pursuit, 26 July 2021.
- '[What do pilots think of having more AI in the cockpit?](#)' Fabio Mattioli, Johanne Trippas, Sarah Gosper, Fraser Allison, Sara Khorasani, Harriette Richards, Cynthia Sear and Gabby Bush, Pursuit, 25 June 2021.
- '[Privacy erosion by design: why the Federal Court should throw the book at Google over location data tracking.](#)' Jeannie Paterson and Elise Bant, The Conversation, 19 April, 2021.
- '[Australia vs Facebook: Regulating the Market of Attention](#)' Mariam Nadeem, Gabby Bush, Dr Dana McKay and Jeannie Paterson, Pursuit, 18 February 2021.
- '[Trump, Nipples and the Hypocrisy of Social Media Giants](#)' Gabby Bush, Mariam Nadeem, Marc Cheong, Kobi Leins and Simon Coghlan published in Pursuit, 28 January 2021.
- '[How some companies are spending millions to read your mind](#)' Jeannie Paterson, on SBS 'The Feed'

### 3. Research Streams

- [\*Animals and AI\*](#) led by Dr Simon Coghlan
- [\*Art, AI and Digital Ethics\*](#) led by Dr Vanessa Bartlett
- [\*Ethics of AI in Healthcare\*](#) led by Dr Simon Coghlan
- [\*Autonomy and AI\*](#) led by Professor Tim Miller
- [\*AI in Private Spaces\*](#) led by Professor Jeannie Paterson
- [\*EdTech\*](#) led by Dr Simon Coghlan

### 4. Research Projects

- [\*Ninian Stephen Law Program: New Legal Thinking for Emerging Technologies\*](#), Professor Jeannie Paterson, Professor Tim Miller, Professor Lars Kulik and Assistant Professor Lars Kulik
- [\*Questioning the Chatbot: Scrutinising the Performance of Telco Customer Service Chatbots in Terms of Service, Transparency, Safety, Privacy and Security\*](#), Professor Jeannie Paterson, Professor Reeva Lederman, Dr Simon Coghlan and Dr Yvette Maker
- [\*Beyond Anthropomorphism? The AI - Machine - Human - Animal Continuum\*](#), Dr Simon Coghlan, Dr Fabio Mattioli, Dr Markus Kneer and Suzanne Tolmeijer
- [\*Regulatory Mechanisms for protecting reasonable expectations of privacy: the roles of consent and fairness in Australian and Indian Data Protection Law\*](#), Professor Jeannie Paterson and Professor Mark Taylor
- [\*The Ethics and Practice of AI Localism at a time of COVID-19 and beyond\*](#), Professor Jeannie Paterson and Dr Yvette Maker
- [\*AI in the Home?: Understanding how Australians Use Digital Personal Assistants\*](#), Professor Jeannie Paterson and Professor Megan Richardson
- [\*Digital Analysis of Morality as Cooperation\*](#), Dr Marc Cheong
- [\*Mind Your Business: Surveillance technologies for Workplace Safety and Wellbeing\*](#), Professor Jeannie Paterson, Professor Tim Miller, Dr Simon Coghlan, Gabby Bush and Liam Harding
- [\*Digital Overdiagnosis\*](#), Dr Simon Coghlan, Dr Daniel Capurro, Dr Douglas Pires (Lead by the Centre for Digital Transformation of Health)

## 5. Seed funding projects

- [\*Tracking kids: Use and repurposing of wearable and mobile devices\*](#), Dr Simon Coghlan (FEIT,) Professor Martin Gibbs (FEIT,) Dr Bjorn Nansen (Arts,) Dr Jane Mavoa (FEIT.)
- [\*Looking into the Psychiatric Panopticon: Ethical, Legal and Social Issues of Automated Nursing Observations in Acute Psychiatric Settings\*](#), Dr Piers Gooding (MLS,) Dr Simon D'Alfonzo (FEIT,) Assistant Professor Bridget Hamilton (MDHS,) Dr Cathy Daniel (MDHS,) Dr David Clifford (MLS,) Hamilton Kennedy (MDHS,) Timothy Kariotis (MLS/FEIT)
- [\*Physical place, Digital Space and the pervasive devices that bind them: understanding our ever-connected world\*](#), Dr Marc Cheong (FEIT,) Dr Kristal Spreadborough (MDAP,) Dr Aleks Michalewicz (MDAP)
- [\*Interrogating the Ethics of Biometric Capture in Immersive Musical Performance\*](#), Dr Ryan Kelly (FEIT,) Dr Solange Glasser (FFAM,) Dr Margaret Osbourne (MDHS,) and Ben Loveridge (Student and Scholarly Services.)
- [\*SACRIFICE: Can you trust a stone? Rehearing human and robot swarms via ancient standing stones\*](#), Dr Robert Walton (VCA/FEIT,) Aleks Michalewicz (MDAP,) Dr Arlie Chapman (FEIT,) Goran Duric (VCA,) Daniel Williams, Elena Vella (FEIT) and Justin Green (FEIT.)

## 6. Workshops

- Researcher to Researcher Speed Dating – for the CAIDE Seed Funding round Pervasive Devices, 11 May 2021
- AI, Art and Digital Ethics – workshop for the CAIDE AAIDE Seed funding round.

## 7. Events

### **Australian Cyber Law Map Launch**

Thursday 25 March 2021

This event was co-hosted by UNSW, the Allens Hub for Technology, Law & Innovation and The University of Melbourne through the Centre for AI and Digital Ethics. With kind support from: Cyber Security Cooperative Research Centre, IEEE SSIT Society on Social Implications of Technology, Sec Edu, Australian Society for Computers and the Law.

Speakers: Professor Lyria Bennett Moses, Dr Kobi Liens, EJ Wise, Rhys Ryan, Professor Graham Greenleaf, and Professor Min Livanidis.

### **The Reasonable Robot**

Tuesday 13 April 2021

This event was cohosted with the Australian Society for Computers and the Law Speakers: Professor Ryan Abbott, University of Surrey and Professor Jeannie Paterson

### **We, the Robots?**

Thursday 7<sup>th</sup> October 2021

Professor Simon Chesterman, Dean of Law, National University of Singapore and Head of AI Governance, AI Singapore spoke to a public Audience about his book: "We, the Robots, Artificial Intelligence and the Limits of the Law" with Professor Jeannie Paterson. The event was opened by Artwork for Lucy West Titled "The Dangerous Power of Speculation."

### **Ninian Stephen Law Program Oration**

Thursday 21<sup>st</sup> October

As the official launch of this project was cancelled due to the COVID19 Pandemic, CAIDE hosted an Oration and Launch with Dr Cathy Foley, Chief Scientist of Australia and Michelle Price, CEO AustCyber. The launch was opened by artwork from Madeleine Flynn and Tim Humphries titled THERE IS NO POINT OF NO RETURN and the Vice Chancellor of the University of Melbourne delivered opening remarks

The event was attended by approximately 80 people. The full event can be viewed [here](#).

### **Emerging Tech and Law Leaders Forum**

- An Evening with Professor Sandra Wachter, Monday 19<sup>th</sup> July
- An Evening with Professor Simon Chesterman, Thursday 7<sup>th</sup> October

### **Technology and the World Around Us Seminar Series**

#### **Art, Literature and Technology: Understanding human experience, expression and emotion in the datafied age**

Friday 14 May 2021

Speakers: Professor Stephanie Trigg, Dr Marc Cheong, Dr Vanessa Bartlett and Dr Tyne Sumner

#### **Animals, Ethics and Technology: Towards digital rights for animals**

Friday 25 June

This event was cohosted by the Animal Welfare Science Centre

Speakers: Dr Simon Coghlan, Dr Mia Cobb, Dr Sarah Webber and Professor Jeannie Paterson

#### **The Challenges of Automated Decision-Making in Healthcare.**

Cohosted with the Centre for Digital Transformation of Health.

Speakers: Professor Uwe Aickelin, Dr Wendy Chapman and Dr Daniel Capurro with Dr Tyne Sumner.

#### **Technology Facilitated Abuse and the Need for Digital Ethics**

Cohosted with the Melbourne Social Equity Institute and the Melbourne Research Alliance to End Violence Against Women and their children.

Speakers: Dr Renee Fiolet, Dr Dana McKay, Favour Borokini with Dr Yvette Maker.

## 8. Talks

- Jeannie Paterson was a panel presenter on fairness and Edtech at the ACCC Consumer Congress speaking (March 2021)
- Jeannie Paterson provided an invited presentation on Algorithmic Advisers at the Consumer Law Scholars Conference 2021 hosted by the Berkeley Centre for Consumer Law and Economic Justice (March 2021).
- Jeannie Paterson was part of a panel discussion on new technologies and digital ethics for [The Dangerous Power of Speculation](#) design exhibition for Melbourne Design Week (March 2021)
- Tim Miller was the Keynote speaker for [HCXAI's ACM CHI Workshop on Operationalizing Human-Centered Perspectives in Explainable AI](#). (May 2021)
- Tim Miller spoke for [ACM CHI Workshop](#) – Towards Explainable and Trustworthy Autonomous Physical Systems. (May 2021)
- Jeannie Paterson presented 'Smart and AI Informed Contracts: Trust and the Commodification of Contracting' at the Beyond Consensus Conference at UTS (June 2021).
- Jeannie Paterson was discussant for the ADM+S *Alternative Data Economies* seminar series #3 (June 2021)
- Simon Coghlan spoke on the radio with [Aged Care Insight](#) to discuss if robots are safe and ethical following his [pursuit piece](#) and [publication](#) 'Robots and the Possibility of Humanistic Care', on the 9th of August
- Jeannie Paterson spoke with [The Protégé Podcast](#) about the rapid advancements in tech across the legal profession, and how important it is for students and professionals to grow their expertise in AI and new technology on 15th of August
- Tim Miller spoke for the Faculty of Science's Science Week on Demystifying AI (August)
- Jeannie Paterson presented on Robots, Neural links, and Alexa: Why the ethics of Artificial Intelligence Matter at the EduTech International Congress and Expo on the 17th of August
- Jeannie Paterson spoke on [ABC Radio National's Future Tense](#) about AI investors, human creativity, autonomy, law and policy on the 22nd of August.
- Tim Miller and Jeannie Paterson were interviewed for the UoM science students magazine [OmniSci](#)
- Jeannie Paterson spoke for the Melbourne Law School on '[Should AI Systems be classifiable as patent inventors?](#)' (15 September)
- Jeannie Paterson was part of a panel event on Law and AI run by the UoM [Science and Technology Law Association](#), on the 14th of September
- Jeannie Paterson was part of a panel with professors Joshua Gans, Kim Weatherall and Rebecca Giblin on '[Should AI systems be classifiable as patent inventors?](#)' For the Intellectual Property Research institute of Australia IPRIA on the 7th of October
- Jeannie Paterson chaired a panel with Ed Santow (UTS) and Ben Gauntlett (Disability Discrimination Commissioner) and Rowan McRae (Executive Director, Civil Justice, Access and Equity, Victorian Legal Aid) on AI and Human Rights at the Government Solicitors Conference 2021, on the 7th of September 2021
- Jeannie Paterson presented a talk on Data Protection and Designing Law for AI at the O.P Jindal Global University conference titled 'The road ahead in implementing personal data protection legislation effectively: Lessons from EU and Beyond' (October 2021)
- Simon Coghlan spoke on AI Ethics, **Professional Staff Conference**, The University of Melbourne, October 2021
- Jeannie Paterson spoke on 'An Australian Perspective on the EU Draft AI Act' for the Norwegian Research Center for Computers and Law, University of Oslo on 3 November
- Jeannie Paterson spoke about law and robots to the [Lets Talk Robots Podcast](#) (November 2021)
- Jeannie Paterson spoke on [Regulating Digital Technology](#) for the Australian Strategic Policy Institute's podcast Policy, Guns & Money: The ASPI Podcast. (November 2021)
- Jeannie Paterson spoke on Data Rights, Consent and Surveillance at the [NetThing Panel](#) on 4 November
- Tim Miller gave a talk on explainable AI at the Bell Labs Responsible AI series on 10 November.
- Jeannie Paterson spoke in a panel on data rights reform to the Office of the Victorian Information Commissioner's Victorian Privacy Network on 11 November
- Henrietta Lyons on '[Demystifying Consumer Fintech](#)' at the [Money power and AI Conference at UNSW](#) on 29 November
- Simon Coghlan spoke on AI Ethics and Veterinary Medicine, **World Small Animal Veterinary Association Conference**, November 2021 (invited talk)
- Gabby Bush, Simon Coghlan and Jeannie Paterson spoke at the Ian Potter Galleries forum CONSENT on November 30<sup>th</sup> and 31<sup>st</sup>
- Yvette Maker and Jeannie Paterson presented their forthcoming paper 'AI in the Home: Consumer Protection and AI' at the Australasian Consumer Law Roundtable hosted by the University of Sydney on 1 December
- Gabby Bush, Simon Coghlan, Jeannie Paterson and Tyne Sumner spoke at the Ian Potter Galleries Interdisciplinary forum CONSENT on Tuesday 30 November and Wednesday 1 December.
- Tim Miller spoke about human-centered explainable AI at the [Responsible Data Science Symposium](#) hosted by the ARC Centre for Excellence for Mathematical and Statistical Frontiers and the QUT Centre for Data Science on 3 December.

## **9. CAIDE Team**

- Professor Jeannie Paterson, Co-Director
- Professor Tim Miller, Co-Director
- Gabby Bush, Program Manager
- Dr Yvette Maker, Senior Research Fellow and Research Manager (Resigned)
- Dr Tyne Sumner, Subject Development Coordinator (Contract concluded)
- Dr Michael Wildenauer, Subject Development Coordinator

## **10. Research Assistants**

- Liam Harding
- Lucy Wiseman
- Carmelina Contarino
- Jake Fava
- Chris Giraldi
- Eleanor Twomney

## **11. PhD Students**

- Henrietta Lyons, PhD Candidate, School of Computing and Information Systems
- Debbie Gonzalez Canada, PhD Candidate, School of Ecosystem and Forest Sciences
- Vivi Tan, PhD Candidate, Melbourne Law School
- Hui Chia, PhD Candidate, Melbourne Law School
- Shelia Njoto, PhD Candidate, Faculty of Arts
- Eliza Shioji, Melbourne Law School
- Joshua Rose, Faculty of Arts
- Aidan McLoughney, Faculty of Engineering and IT

## **12. CAIDE Researchers**

- Dr Simon Coghlan, Senior Research Fellow in Digital Ethics
- Dr Marc Cheong, Senior Research Fellow in Digital Ethics
- Prof Lars Kulik, School of Computing and Information Systems
- A/Prof Atif Ahmad, School of Computing and Information Systems
- Dr Martin Tomko, School of Computing and Information Systems
- Prof Mark Taylor, Melbourne Law School
- Suzanne Tolmeijer, University of Zurich
- Dr Markus Kneer, University of Zurich
- Dr Shaanan Cohney, School of Computing and Information Systems
- Dr Piers Gooding, Melbourne Law School
- Dr Tyne Sumner, School of Culture and Communications
- Dr Vanessa Bartlett, School of Culture and Communications
- Dr Kristal Spreadborough, Melbourne Data Analytics Platform

## **13. Seed funding researchers**

- Tim Kariotis, Melbourne School of Government
- Assistant Professor Bridget Hamilton, Faculty of Medicine, Dentistry and Health Sciences
- Dr Cathy Daniel, Faculty of Medicine, Dentistry and Health Sciences
- Hamilton Kennedy, Faculty of Medicine, Dentistry and Health Sciences
- Dr Robert Walton, Faculty of Engineering and IT
- Dr Arlie Chapman, Faculty of Engineering and IT
- Goran Duric, Victorian College of the Arts
- Elena Vella, Faculty of Engineering and IT
- Dr Ryan Kelly, Faculty of Engineering and IT
- Dr Solange Glasser, Faculty of Fine Arts and Music
- Dr Margaret Osborne, Melbourne School of Psychological Science
- Ben Loveridge, Student and Scholarly Service
- Dr Fabio Mattioli, School of Culture and Communications
- Dr Fraser Allison, School of Computing and Information Systems
- Dr Hariette Richards, School of Culture and Communications
- Dr Johanne Trippas, School of Computing and Information Systems
- Sarah Gosper, School of Culture and Communications
- Cynthia Sear, School of Culture and Communications
- Sara Khorasani, School of Computing and Information Systems

## 14. CAIDE Community

- Dr Tatiana Cutts, Melbourne Law School
- Dr Matthew Dolan, Faculty of Science
- Dr Inbar Levy, Melbourne Law School
- A/Prof Jonathan Liberman, Melbourne Law School
- Dr Fabio Mattioli, Faculty of Arts
- Dr James Parker, Melbourne Law School
- Prof Megan Richardson, Melbourne Law School
- A/Prof Leah Ruppanear, Policy Lab
- Professor Ben Rubinstein, School of Computing and Information Systems
- Dr Niels Wouters, Science Gallery
- A/Prof Jason Bosland, Melbourne Law School
- Prof Rachel Fensham, Digital Studio Faculty of Arts
- Dr Jake Goldenfein, Melbourne Law School
- Dr Piers Gooding, Melbourne Social Equity Institute
- Dr Lea Frermann, School of Computing and Information Systems
- Prof Tony Wirth, School of Computing and Information Systems
- Professor Tony Worth, School of Computing and Information Systems
- Prof Scot McQuire, School of Culture and Communications
- Dr Martin Tomko, School of Computing and Information Systems
- Dr Suelette Dreyfus, School of Computing and Information Systems
- Prof Shanton Chang, School of Computing and Information Systems
- Dr Danny Butt, Victorian College of the Arts
- Dr Mia Cobb, Animal Welfare Science Centre
- Dr Sarah Webber, School of Computing and Information Systems
- A/Prof Eliza Mik, The Chinese University of Hong Kong
- Suzzane Tolmeijer, University of Zurich
- Dr Markus Kneer, University of Zurich
- Joanne Bryne, La Trobe University
- Dr Dana McKay, RMIT
- Dr Simon D'Alfonzo, School of Computing and Information Systems
- Dr Daniel Capurro, Faculty of Engineering and IT
- Dr Douglas Pires, Faculty of Engineering and IT