

HVCK

five:twozerotwotwo 
HVCK: a celebration of digital counter culture

SMART CYBER

osint honours

the journey of a trace labs judge

feminist hackerspaces

artificial intelligence & future crimes

the potential fate of skynet

afterdark

art & images of Indigo Perry, Marina Abramovic & Fiona Lewis

**the
wonderful women
of cyber security issue**





See your business through the eyes of an **adversary**

Smart Cyber Solutions: the devil you know

Physical and digital security consulting

Privacy & anonymity solutions

Threat & digital foot print assessments

Pro bono services available for registered charities*



Tox: 49B4FBFE9CE99512564C0046AE55799E5ACD90C50EE2C233030AC4A295505307AFFED7D94571

ransom







Letter from the Red'itor

Women have, since time immemorial, created maps to navigate unpredictable, often dangerous landscapes. These maps, made from song-lines, fireside tales, and moon-blessed circle dances, contained hushed prayers and earth-scented spells,

blood wisdom, memories from the first woman to the one born at my next exhale. They spoke of the mysteries of birth and death, of how to listen to the earth and to their bodies, and this ancient knowledge was embedded, like code, in folkloric wisdom and whispered evocations in the dark.

The possession of these less familiar, more embodied ways of knowing, has a history of being viewed with suspicion by entrenched patriarchal narratives. Those who have an interest in maintaining power become extremely perturbed when women possess knowledge, because women with knowledge, are women with power.

The history of womanhood is a history of brutality, alienation and oppression over hundreds of years, of old wisdom lost and therefore absent from the dominant epistemological frameworks that have informed and shaped our understanding of self, other, and our relationship with the world.

But.....

*It is also a history of empowerment
And subversion
Of carving underground
tunnels through which words
of magic and words of
power were passed
And through which those
enslaved walked in darkness
toward liberation
Like a chain
Like a poem
Susserating on the forest
floor
Like a heartbeat
Reverberating all the way
down
to the centre
of everything.*

Women with power always herald transformation, because women are, in their very bones, agents of change. The other thing about women, and this is important to know, they are patient, they understand what it means to wait, to wait for the right time, and here I refer to both Chronos and Kairos time, to act, to speak,

to march, to fight, to remove all veils and let themselves be seen in their full power. Women also understand the need to engage with and use technology to subvert and interrogate dominant narratives, to disseminate knowledge, and initiate revolution.

The emergence of digital and cyber technology has evoked fears of disconnection from our humanity as well as hope that it may offer an opportunity

to connect with other humans and be a catalyst for change at a micro and macro level that has never been known by previous generations. Digital technology presents the possibility that we can all become co-creators in the dreaming of our shared future, and in so doing dissemble outdated and outworn systems that privilege some voices and silence others.

Women have, and continue to be, active agents in the digital aeon, and their presence activates the transformative potential of this technology. Cyber-technicians, cyber-feminists, witches, and cyborg warriors are declaring their presence in digital spaces, and they will not be silenced.

Women have, since the dawn of the internet, articulated their genius, passion and vision in the liminal spaces where the human and the cyber meet, and in these spaces, their voices take on a new strength, their voices reclaim the lost knowledge, their voices shake the foundations of power, their voices pull apart and reassemble, they hack the matrix, they scream and shout like the wild women of old.

Hacking is the new spell craft...

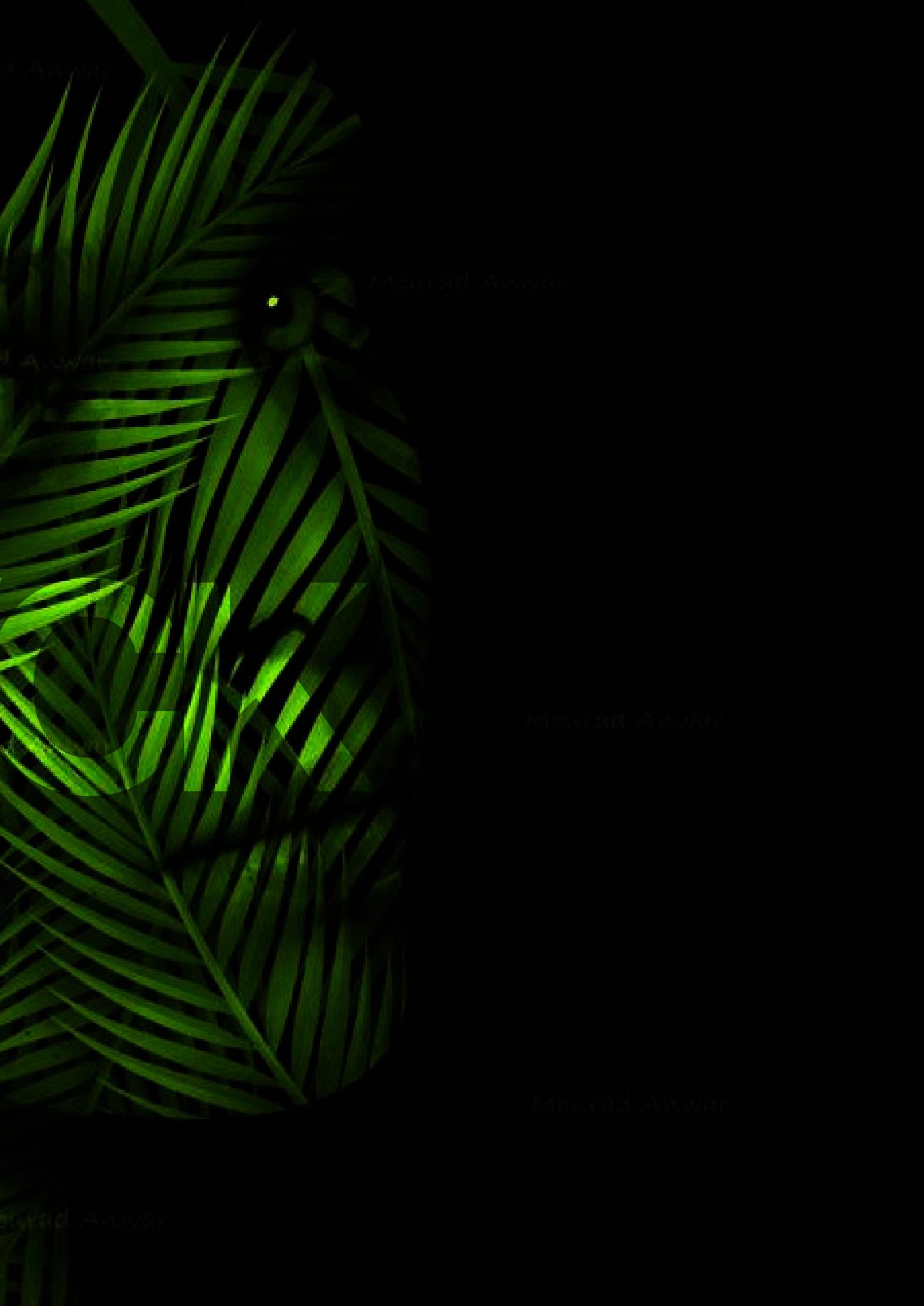
Lil'Red

MOUNTED MUSEUM

MOUNTED ANIMALS

MOUNTED PLANTS



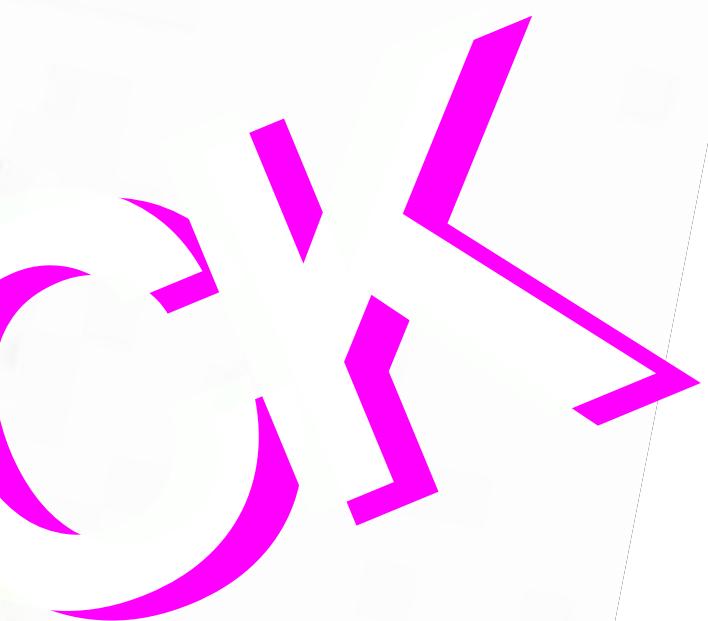


© 2023 by [Pixel Art Prints](#). All rights reserved.

© 2023 by [Pixel Art Prints](#). All rights reserved.

© 2023 by [Pixel Art Prints](#). All rights reserved.





the
innocent lives
foundation
my story by Mandy Cox

“There are times in our line of work when you find yourself staring into the eyes of the children in these movies and apologizing. We apologize because we can’t find them. We can’t rescue them. There is just not enough people or resources to help.”



Warning:

The following includes a discussion of child sexual abuse. This content is disturbing, so I encourage everyone to prepare themselves emotionally before proceeding.

I am the Senior Team Leader at the Innocent Lives Foundation, a nonprofit organization dedicated to identifying anonymous child predators to help bring them to justice. I joined ILF in 2018 as a volunteer and became an employee in 2020. My primary responsibilities include managing the Software Development and Education & Outreach teams of volunteers, keeping the researchers as safe and efficient as possible, and creating design assets.

I didn't always know that child abuse could come in many shapes and sizes. Like many others, I had biases around how and why it happened. I learned about stranger danger and the importance of the buddy system. I didn't know my friend's camp counselor touched her. I didn't realize another friend's mom had my friend play "special games" with strangers so that she could afford drugs. I didn't know that most child predators preyed on children they already knew.

Compartmentalization is a skill that comes in handy, but sometimes those compartments bleed into other sections of life. It's a

small price to pay, considering the day I lose empathy is the day I lose myself. It's a strange balance to feel empathy without obsessing over situations outside of your control. In a 2007 court hearing, Flint Waters from the Wyoming Internet Crimes Against Children Task Force stated it perfectly:

"There are times in our line of work when you find yourself staring into the eyes of the children in these movies and apologizing. We apologize because we can't find them. We can't rescue them. There is just not enough people or resources to help."

Since 2007, more resources have become available to law enforcement worldwide, including the ILF and many other nonprofits.

The ILF works on hundreds of cases annually, and most are thorough enough to be given to law enforcement. Even without glancing on the dark web, loads of users seek to trade child abuse material on the clear net.

I've learned much at ILF, and prevention starts with trust and education. Have your kids teach you how to use the apps they use so that you have a better understanding of what they're doing on their devices. In return, teach your kids about online safety and explain why it's so crucial.

Every day let's make the web a better place.



ancient solutions
for modern afflictions

emergenc

wellness in a wire



ce
ed world

DURÉE

ARTIFICIAL INTELLIGENCE & FUTURE CRIMES

INTRODUCTION

With the rise of Artificial Intelligence ('AI') and Automated Systems ('AS'), together with a move towards a centralized database, there is an increased risk of individuals being charged with crimes they did not commit. Arguably, several people have succumbed to wrongful arrest leading to false imprisonment. False imprisonment is an unlawful restraint of a person by another and could be subject to civil claim.

Over the past four years, the use of AI has increased by over 270%. In 2019, Robert Williams was arrested for allegedly stealing watches from a luxury store. The Detroit Police Department (DPD) ran a 'grainy photo of a black man' through a facial recognition system. The system returned Robert William's driver's licence. It was later learnt that AI was used to deduce the likely suspect. Unfortunately, the wrong person was arrested and luckily the issue was rectified. However, the DPD is facing a civil claim for wrongful arrest and false imprisonment.

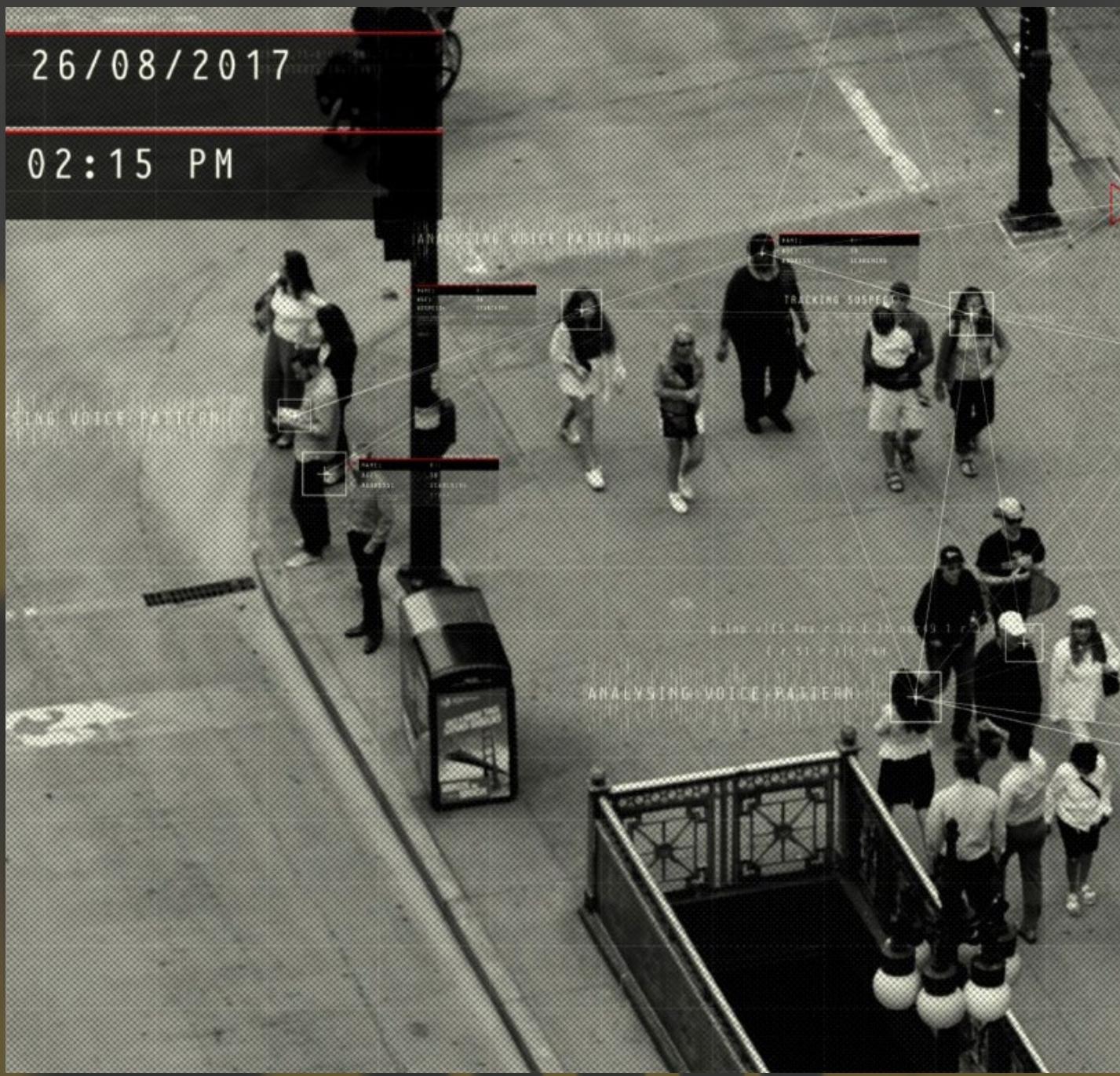
In a recent article by Pranshu Verma, it was highlighted that police are reliant on AI to

written by **Brenda Van Rensberg**

predict crime using AI. Wrongful arrest and false imprisonment will continue to rise unless we face and rectify flaws within the system. This article will discuss AS, AI, the move to a centralized database, the increase likelihood of crime that the everyday individuals could face, and the lack of controls which should be addressed to reduce the risk of both wrongful arrests and false imprisonment

A HIGH-LEVEL UNDERSTANDING OF AS and AI

Automated Systems are a 'collection of networks' that are supervised by a single entity or organisation , such as a university, business, or even the government. AS has become irreplaceable within the modern world and is continually growing and evolving at an unprecedented rate. In the past year alone, the USA has seen a growth of over 25% in Automated Systems. From the autonomous vehicle to the smart watch, there is a connected device for almost everyone and everything.

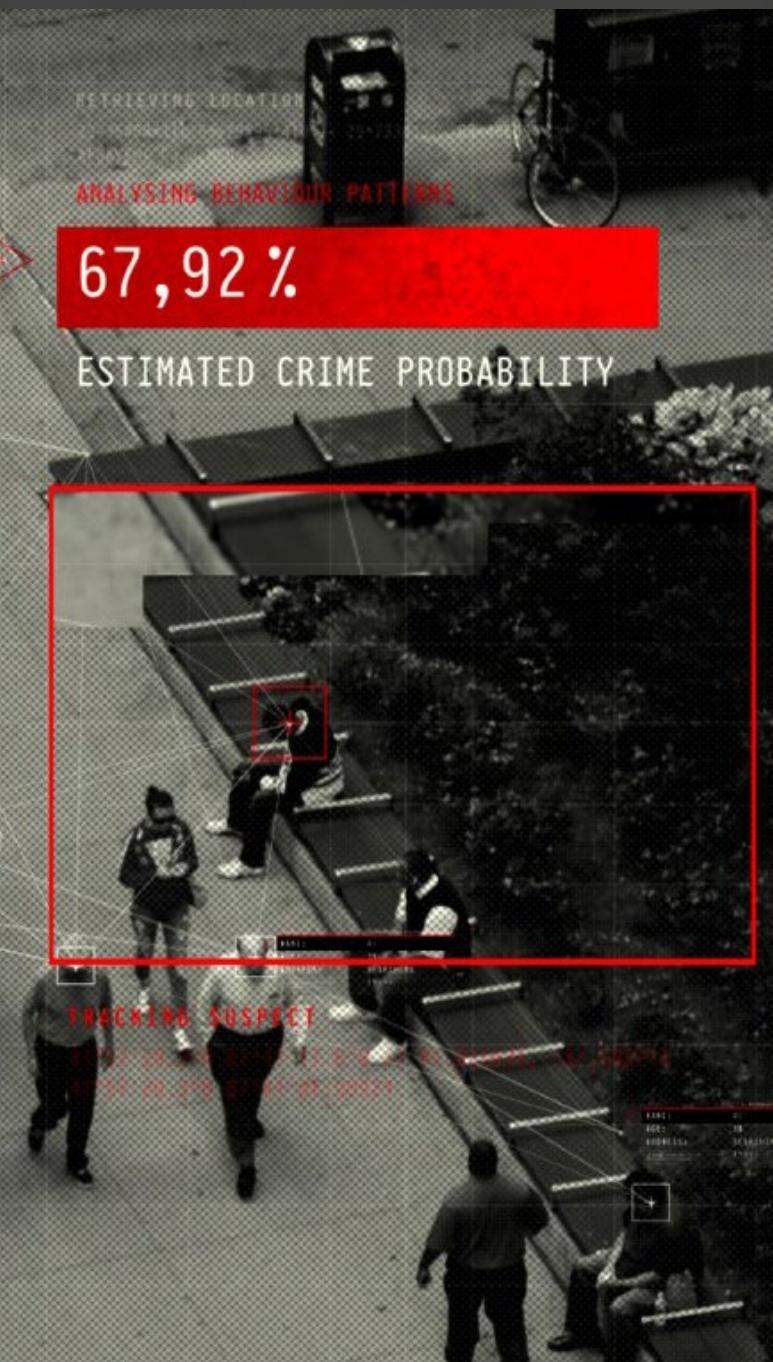


According to David Danks and Alex John London, AS moves beyond automation by making meaningful decisions through Artificial Intelligence. When you combine a device that uses AI to mimic human behaviour and connect it to an AS network , the possibility of a future crime move from fantasy to reality.

Artificial Intelligence is not a new concept. In 1950, Professor John McCarthy and Marvin Minsky proposed that machines will 'use language, form abstractions and concepts, solve kinds of problems

now reserved for humans, and improve themselves'. Arguably, this has raised concerns regarding accountability, responsibility, and trust.

In her article 'Why g Matters: The Complexity of Everyday Life', Linda Gottfredson highlights that intelligence is a 'highly general information processing capacity that facilitates reasoning, problem solving, decision making, and other higher order thinking skills'. Artificial Intelligence is a machine's ability



to demonstrate intelligent behaviour like that of a human.

AI, the brain behind AS, is fundamentally flawed. AI's deep learning layers are arguably entwined with power, prejudice, corruption, deception, and fraud. Despite best intentions for AS, we face a future where AI will use social media, surveillance, data warehouses, cloud base storage and even legislation, despite the impact it may have on an individuals' life and/or livelihood.

A CENTRALIZED DATABASE & THE LIKELIHOOD OF WRONGFUL ARREST

Over the past several years there has been a strategic plan to move data to one centralized database. A prime example of a centralized database is health information. The argument presented to the public was that it was easier for all health care providers to access your health data and give you a better service. However, access is granted to other entities that stretch beyond your health provider. According to the Health Insurance Act 1973 (Cth), an entity recognized within this legislation has the rights to access an individual's Medicare information.

Currently, access to this data has further expanded under the guise of 'lawful access.' According to the Bio-Security Act, police, and other enforcers, can access health information to verify vaccination status. Police are able to scan a QR code on the vaccination certificate to confirm the identity of the individual and whether they were 'fully vaccinated'. It has been identified that the police have gone beyond the purpose of the Act and have accessed data for other investigations purposes.

Recently, I had the opportunity to witness the access of personal and sensitive information at the Singapore border control. Individuals' facial biometrics are scanned and compared with a central database. Additionally, fingerprints are taken and run through the same system. Arguably, this system has been put in place to catch any known criminals. However, the thought had crossed my mind on the probability of AI maliciously accessing this database to replace one person with another. It would be difficult to prove innocence especially when all data has been erased and rewritten so that an innocent victim is placed on the 'most wanted' list. With an increasing reliance on AI to quickly identify an individual on a list, an identification can quickly escalate to a wrongful arrest and false imprisonment.

Arguably, it may seem like a scene out of a sci-fi movie, however individuals have already been wrongfully arrested using this type of technology. Nijeer Parks, was accused of shoplifting from a Hampton Inn Gift shop in New Jersey.

A fake driver's licence was used to identify Parks through facial recognition software. Parks was wrongfully arrested and appeared in court for sentencing. He was facing 25 years imprisonment. If it were not for a receipt he found on his phone, Parks would still be in prison for a crime he did not commit.

LACK OF CONTROLS

There is an increase reliance on Artificial Intelligence with very few controls, or policies, to calibrate the output. AI incorporates several layers of learning. The main component is Machine Learning which accesses and uses historical data. If data has errors, then there is a likelihood that the output will be flawed. This often presents either a bias or a variance error which are both prediction errors. According to Experian, over 32% of business have poor data. Arguably, poor data can quickly turn into a regulatory nightmare especially if the data is required for a financial model.

In 2010, the Global Financial markets saw a 'flash crash' which saw the Dow Jones Industrial Average dropped roughly 1000 points in less than hour. Most of the loss happened in four-and-a-half minutes. It wiped out over a trillion dollars from companies around the world.

The event was linked to an error in an AI high frequency trading algorithm which started off when a large fundamental trader executed a sizable sell order of 75,000 E-mini (S&P 500 futures) contracts through an automated execution algorithm. This impacted the calculation of the E-mini market as the algorithm calculated volume regardless of price or time. Due to the rapidly decline in E-mini market value, the sell algorithm sold more contracts causing the 'Chicago Mercantile Exchange (CME) Stop Logic Functionality to be triggered and pause sales for 5 seconds.' Even though the pause helped stabilize the market, individual securities and Exchange Fund Trades placed sell orders creating a further price decline. This event is considered as one of the 'biggest intraday declines in the history of the Dow Jones Industrial Average.' I would argue that a similar attack was used on several cryptocurrency platforms this year. Unfortunately,

there is little legal recourse for this type of damage.

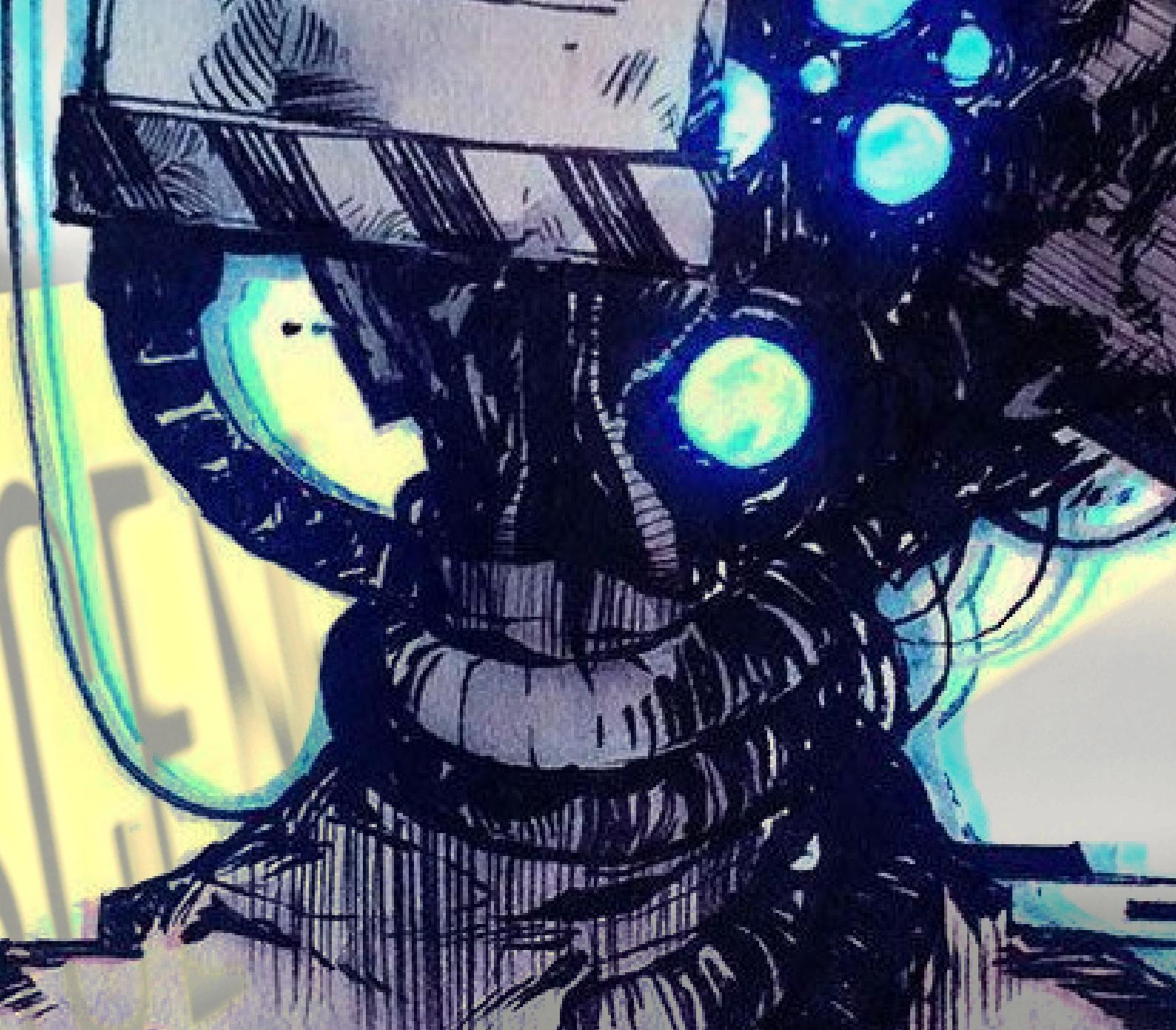
Apart from errors in data, algorithms can also present miscalculations. The Bellman's Equation, which is often used in conjunction with Markov Decision Process, helps an agent calculate a desired state. In 2018, Amazon identified that their AI recruiting system did not like women. It was found that women were passed for technical roles. According to Jeffrey Dastin, the AI taught itself that 'male candidates were preferable.' The error came from the input that the AI was given for reviewing a curriculum vitae. It was reported that engineers used resumes, from roughly a 10-year period, which were predominately male. The algorithm, therefore, learnt from incorrect historical data and applied it correctly despite gender bias.

There are currently no regulations for algorithmic accountability. While there is a pilot program afoot for Algorithmic Impact Assessments, most accountability is reliant on the ethics of AI development. AI is **still be used** for the recruitment process and many candidates are often overlooked due to data or bias errors.

Lastly, AI is currently being used in cyberattacks. The risk of cyberattacks on major servers have been on discussion panels for years. Unfortunately, weak security controls, with little to no penalties, have been implemented a little too late. Billions of personal and sensitive data is currently available on the dark web. When you combine this data with AI, erasing an individual from a heinous crime can easily become a monetized business model. Additionally, innocent victims can quickly find themselves in a compromising situation for a crime they did not commit. Furthermore, this criminal tactic could be used as part of a digital blackmail scheme which the legislative, judicial, and executive arm are not currently equipped to handle.

CONCLUSION

Artificial Intelligence has the potential to do great things. Unfortunately, at its core, is human nature. Arguably, human nature is riddled with prejudice, corruption, deception, and fraud.



With an increase of expectation and a decrease in the time to achieve an output, there is a greater reliance on AI to assist with deliverables and very little attention paid to its output. As a result, we are quickly advancing towards a new age criminal world where AI is used maliciously. While government focuses on Social Policy, there is very little attention paid to the individual who could find themselves an innocent victim to a future crime. Arguably, the judicial arm is not equipped with technical skills to handle these cases and there is limited legislative support for victims of this crime.

Additionally, there is insufficient algorithmic accountability. As seen in 2010, the financial market was hit severely by a flawed algorithm used by AI. Arguably, a similar algorithm could have been used on other financial platforms, such as cryptocurrency, which succumbed to attacks. Many individuals lost significant amounts of money and there is little to no legal support to assist with damages.

To progress forward and offer individuals within our community an opportunity to legal recourse for future crimes, there must be an enormous effort to advance both the judicial and legislative arm of our government to meet social needs of predicted crimes. Without this legal foundation, many could fall victim to future crimes with limited legal aid to support their case.

references

Ruddock v Taylor (2005) 221 ALR 32.

<https://au.oberlo.com/blog/artificial-intelligence-statistics>

Tate Ryan-Mosley, The New Lawsuit that Shows Facial Recognitions is Officially a Civil Rights Issues, MIT Technology Review (Web Page, 2021) <<https://www.technologyreview.com/2021/04/14/1022676/robert-williams-facial-recognition-lawsuit-aclu-detroit-police/>>.

Ibid.

<https://www.washingtonpost.com/technology/2022/07/15/predictive-policing-algorithms-fail/>

‘What Does Autonomous System (AS) Mean?’, Techopedia (Web page, 5 February 2019) <<https://www.techopedia.com/definition/11063/autonomous-system-as>>.

‘A history of automation: the rise of robots and AI’ Think Automation (09 January 2021) <Web page, <https://www.thinkautomation.com/bots-and-ai/a-history-of-automation-the-rise-of-robots-and-ai/>>.

‘World - Autonomous System Number statistics - Sorted by number’, Regional Internet Registries Statistics (03 January 2022) <https://www-public.imtbs-tsp.eu/~maigron/RIR_Stats/RIR_Delegations/World/ASN-ByNb.html>.

David Danks and Alex John London, Regulation Autonomous Systems: Beyond Standards (2017) 32 IEEE Computer Society 1.

Leslie Pack Kaelbling and Andrew Moore, Reinforcement Learning: A Survey (1996) Journal of Artificial Intelligence 4.

John McCarthy, Marvin Minsky, et al., A Proposal for the Dartmouth Summer Research Project on Artificial intelligence (Dartmouth College, 1955)

McCradden, Melissa D., et al. “Ethical Concerns Around use of Artificial Intelligence in Health Care Research from the Perspective of Patients with Meningioma, Caregivers and Health Care Providers: A Qualitative Study.” CMAJ Open, vol. 8, no. 1, 2020

Linda Gottfredson, Why g Matters: The Complexity of Everyday Life (1997) 24 Intelligence (Norwood) 1.

Alan Turing, Computing Machinery and Intelligence (1950) 59 Mind, New Series 236.

Benjamin Cheatham et al., Confronting the Risks of Artificial Intelligence (Web Page, 26 April 2019) <<https://www.mckinsey.com/business-functions/mckinsey-analytics/our-insights/confronting-the-risks-of-artificial-intelligence>>.

Kayla Matthews, How Centralized Data Improves the Health Care Industry (2019) Cyberguard Compliance, website <<https://info.cgcompliance.com/blog/how-centralized-data-improves-the-health-care-industry>>.

Health Insurance Act 1973 (Cth).

Jack Mahoney, WA police crash Catholic Church mid-way through mass to check on compliance with mask mandate (2022) Australia News, website <<https://www.>

skynews.com.au/australia-news/coronavirus/wa-police-crash-catholic-church-midway-through-mass-to-check-on-compliance-with-mask-mandate/news-story/9d52b7294435df899ece5e01c35a13b8.

Graham Greenleaf and Katharine Kemp, Police Access to Covid check-in data is an affront to our Privacy. We need Stronger and More Consistent Rules (2021) The Conversation, website <<https://theconversation.com/police-access-to-covid-check-in-data-is-an-affront-to-our-privacy-we-need-stronger-and-more-consistent-rules-in-place-167360>>.

Khari Johnson, How Wrongful Arrests Based on AI Derailed 3 Men's Lives (2022) Wired, website <<https://www.wired.com/story/wrongful-arrests-ai-derailed-3-mens-lives/>>.

Gianluca Mauro and Nicolo Valiga, Aero to AI: A Nontechnical, Hype-Free Guide to Prospering in the AI Era (Manning Publications Co. 2020).

Thomas C. Redman, If your Data is Bad, Your Machine Learning Tools are Useless, Harvard Business Review (Web Page, 02 April 2018) <<https://hbr.org/2018/04/if-your-data-is-bad-your-machine-learning-tools-are-useless>>.

Seema Singh, Understanding the Bias-Variance Tradeoff, Towards Data Science (Webpage, 2018) <<https://towardsdatascience.com/understanding-the-bias-variance-tradeoff-165e6942b229>>.

Erin Haselkorn, New Experian Data Quality Research Shows Inaccurate Data preventing Desired Customer Insight, Experian (Web Page 29 January 2015) <<https://www.experian.com/blogs/news/2015/01/29/data-quality-research-study/>>.

APRA (Cth), APRA Takes Action Against Macquarie Bank Over Multiple Breaches of Prudential and Reporting Standards (Media Release 1 April 2021).

Taylor Locke, Did a 'concerted attack' cause Terra's UST to crash below \$1? An exec behind the largest stablecoin and experts agree it's suspicious (2022) Fortune, website <<https://fortune.com/2022/05/13/terra-ust-stablecoin-crash-suspicious-potential-attack-george-soros/>>.

Maude Lavanchy, Amazon's Sexist Hiring Algorithm Could Still be Better than a Human (2018) <https://www.imd.org/research-knowledge/articles/amazons-sexist-hiring-algorithm-could-still-be-better-than-a-human/>

Jeffrey Dastin, Amazon Scraps Secret AI Recruiting Tool That Showed Bias Against Women (2018) <https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scaps-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G>

Isobel Asher Hamilton, Why it's Totally Unsurprising that Amazon's Recruitment AI was Biased against women (2018) Insider, website <<https://www.businessinsider.com.au/amazon-ai-biased-against-women-no-surprise-sandra-wachter-2018-10>>.

Ibid

Anj Merchant, Algorithmic Accountability: a practical route to apply AI ethics (2022) DLA Piper, website <<https://www.technologyslegaledge.com/2022/04/algorithmic-accountability-a-practical-route-to-applying-ai-ethics/>>.

JobFlare, Issues with Artificial Intelligence in Recruiting (2022) website <<https://jobflare.com/blog/issues-with-artificial-intelligence-in-recruiting/>>.

<https://rusi.org/explore-our-research/publications/commentary/australias-cyber-security-strategy>

Mary Manzi, How Much is Your Personal Information Worth on the Dark Web (2022) website <<https://geekflare.com/personal-data-on-the-dark-web/>>.

HOCK







ada
lovelace



Diagram for the computation by the Engine of the

Number of Operation.	Nature of Operation.	Variables acted upon.	Variables receiving results.	Indication of change in the value on any Variable.	Statement of Results.	Data.					
						1V_1	1V_2	1V_3	1V_4	1V_5	1V_6
1	\times	$^1V_2 \times ^1V_3$	$^1V_4, ^1V_5, ^1V_6$	$\left\{ \begin{array}{l} ^1V_2 = ^1V_2 \\ ^1V_3 = ^1V_3 \\ ^1V_4 = ^2V_4 \\ ^1V_5 = ^1V_1 \\ ^1V_6 = ^2V_5 \end{array} \right\}$	$= 2n$	1	2	n			
2	-	$^1V_4 - ^1V_1$	2V_4	$\left\{ \begin{array}{l} ^1V_4 = ^2V_4 \\ ^1V_1 = ^1V_1 \end{array} \right\}$	$= 2n - 1$	1	$2n - 1$		
3	+	$^1V_5 + ^1V_1$	2V_5	$\left\{ \begin{array}{l} ^1V_5 = ^2V_5 \\ ^1V_1 = ^1V_1 \end{array} \right\}$	$= 2n + 1$	1	$2n + 1$	
4	+	$^2V_5 + ^2V_4$	$^1V_{11}$	$\left\{ \begin{array}{l} ^2V_5 = ^0V_6 \\ ^2V_4 = ^0V_4 \end{array} \right\}$	$= \frac{2n - 1}{2n + 1}$	0	0	...
5	+	$^1V_{11} + ^1V_2$	$^2V_{11}$	$\left\{ \begin{array}{l} ^1V_{11} = ^2V_{11} \\ ^1V_2 = ^1V_2 \end{array} \right\}$	$= \frac{1}{2} \cdot \frac{2n - 1}{2n + 1}$...	2
6	-	$^0V_{13} - ^2V_{11}$	$^1V_{13}$	$\left\{ \begin{array}{l} ^2V_{11} = ^0V_{11} \\ ^0V_{13} = ^1V_{13} \end{array} \right\}$	$= -\frac{1}{2} \cdot \frac{2n - 1}{2n + 1} = A_0$
7	-	$^1V_3 - ^1V_1$	$^1V_{10}$	$\left\{ \begin{array}{l} ^1V_3 = ^1V_3 \\ ^1V_1 = ^1V_1 \end{array} \right\}$	$= n - 1 (= 3)$	1	...	n
8	+	$^1V_2 + ^0V_7$	1V_7	$\left\{ \begin{array}{l} ^1V_2 = ^1V_2 \\ ^0V_7 = ^1V_7 \end{array} \right\}$	$= 2 + 0 = 2$...	2
9	+	$^1V_6 + ^1V_7$	$^3V_{11}$	$\left\{ \begin{array}{l} ^1V_6 = ^1V_6 \\ ^0V_{11} = ^3V_{11} \end{array} \right\}$	$= \frac{2n}{2} = A_1$	$2n$
10	\times	$^1V_{11} \times ^3V_{11}$	$^1V_{12}$	$\left\{ \begin{array}{l} ^1V_{11} = ^1V_{11} \\ ^3V_{11} = ^3V_{11} \end{array} \right\}$	$= B_1 \cdot \frac{2n}{2} = B_1 A_1$
11	-	$^1V_2 - ^1V_1$	$^1V_{12}$	$\left\{ \begin{array}{l} ^1V_2 = ^1V_2 \\ ^1V_1 = ^1V_1 \end{array} \right\}$	$= -\frac{1}{2} \cdot \frac{2n - 1}{2n + 1} + B_1 \cdot \frac{2n}{2}$

Poetical Science: Ada Lovelace and her life between worlds

By Lil'Red

She walks in beauty like the night

Her parents separated when Ada was only 5 weeks old and it is suggested that she had little or no contact with her father before his death at 36 on 19th April 19th 1824. Her mother, afraid of the possibility that Byron's madness may emerge in her daughter, strictly forbade the indulgence of any creative impulse in Ada and her education was focused on science and mathematics. She often locked Ada in a cupboard as a form of discipline.

All the best of dark and bright meet in her aspect and her eye

When Ada was 12 years of age, she started experimenting with designs for flying machines. She wanted to fly with the birds. Her mother was convinced she would fly away, her father wrote letters in which he called her his Princess of Parallelograms, and his mathematical Medea. Despite her mother's unwillingness to allow further research into flying machines, her father, despite his physical absence, planted the seed of imagination and possibility in his daughter's fertile mind.

Thus mellowed to that tender light which heaven to gaudy day denies

Between 1842 and 1843, Ada translated an article by Italian military engineer Luigi Menabrea about the Analytical Engine. The article was supported by a set of notes, simply called "Notes" which have come to be recognised as containing an algorithm, this algorithm was designed specifically to be carried out by the analytical engine. Ada believed that the engine offered possibilities that went far beyond the replication of mathematical sequences and endless

calculations ..[10] Her vision recognised the possibility that computer's had the capability to change our way of being in the world and support transformation toward human flourishing.

Ada is primarily known for her work with Charles Babbage and his proposed mechanical general-purpose computer, the Analytical Engine. Babbage called her his 'enchantress of numbers' and enabled her to develop her unique approach to science and mathematics. Ada was as passionate about metaphysics as she was about mathematics, she honoured the sacred mystery and identified of imagination and intuition valid and essential maps through "the unseen world's around us".

Where thoughts serenely sweet express,
How pure, how dear their dwelling-place.

Ada identified her work as "poetical science", a way of engaging in the scientific method in which intuition and imagination were key components in the exploration, integration and application of scientific and mathematical principles. Her attendance to the lyrical, imaginal, and liminal spaces within the field scientific/mathematical study enabled her to here engage with complex ethical/philosophical questions that interrogated the relationship between human and machine. In her work with Babbage her exquisitely maintained notes indicate that she was deeply immersed in the examination of the potential of the analytical engine being used as a collaborative tool by individuals and society, technology as a liberator from the often grinding labour that was the lot of much of Victorian society, and an opportunity to create new spaces in which the established

Working Variables.										Result Variables.				
0V_7	0V_8	0V_9	${}^0V_{10}$	${}^0V_{11}$	${}^0V_{12}$	${}^0V_{13}$	${}^1V_{21}$	${}^1V_{22}$	${}^1V_{23}$	${}^0V_{24}$				
0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	B_1 in a decimal fraction.	B_2 in a decimal fraction.	B_3 in a decimal fraction.	B_4 in a decimal fraction.				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B_1	B_2	B_3	B_4				
...	$\frac{2n-1}{2n+1}$	0	0	0	0	0	0				
...	$\frac{1 \cdot 2n-1}{2 \cdot 2n+1}$	0	0	0	0	0	0				
...	0	0	0	0	0	0	0				
...	$n-1$	0	0	0	0	0	0	0				
2	2	2	2	$\frac{2n}{2} = A_1$	0	0	0	0	0	0				
...	$\frac{2n}{2} = A_1$	$B_1 \cdot \frac{2n}{2} = B_1 A_1$	0	0	0	0	0				
...	0	0	0	0	0	0	0				
...	structures and expectations of society could be transcended and eventually subverted.	0	0	0	0	0	0				
And on that cheek, and o'er that brow, So soft, so calm, yet eloquent, The smiles that win, the tints that glow,	I may remark that the curious transformations many formulae can undergo, the unsuspected and to a beginner apparently impossible identity of forms exceedingly dissimilar at first sight, is I think one of the chief difficulties in the early part of mathematical studies. I am often reminded of certain sprites and fairies one reads of, who are at one's elbows in one shape now, and the next minute in a form most dissimilar.	But tell of days in goodness spent, A mind at peace with all below, A heart whose love is innocent!	Ada died of uterine cancer at the premature age of 36, just as her father had, far away from his beloved daughter, and dying in torment from a fever in Greece. She was buried, at her request, next to her father at the Church of St. Mary Magdalene in Hucknall, Nottinghamshire.	[The Analytical Engine] might act upon other things besides number mechanism of the engine...Supposing, for instance, that the fundamental relations of pitched sounds in the science of harmony and of musical composition were susceptible of such expression and adaptations, the engine might compose elaborate and scientific pieces of music of any degree of complexity or extent.	Ada was a woman born out of time Possessed of the knowledge ancient She gathered threads from all directions Threads that had once been woven into spells by grandmothers A magic as old as the first mother's bones	In her eyes she saw that all things connected All things reverberated as one All things spoke But with diverse languages The spells of the grandmothers were sung Above the cracks, Over the silences that came from abandoning Words And letting the body transmit Telekinetically A secret healing A coded awakening- - a bird woman with white skin the light inside her father's poetry which spanned the distance between them Like him She knew that magic was everywhere infused And that knowing required multiple pathways Being able to see the world In that way that only poets, seers. And oracles see, Is only available to the courageous who, even when alone, Will enter like a priestess into the circle and conduct the rituals that invoke power She pulls energy across time, She recites sacred words	In case you needed reminding, dear sisters, Hacking is the new spellcraft	Is thy face like thy mothers's ,you fair child: Ada! Sole daughter of my house and heart? And then we parted – now as now we part, but with a hope Awakening with a start, The waters heave around me; and on high And on high the winds lift up their voices I depart	Gordon, George (Lord Byron). She walks in beauty like the night. www.poetryfoundation.org					



Feminist Hackerspaces

A way to impulse diversity in Cybersecurity

by Gabrielle B

Introduction

All day long the press articles are about the lack of women in cybersecurity, but it seems to me that the essential questions are not addressed.

This article will be talking about feminism in the cyber world, more precisely in the hackerspace and the place of women in hacking.

I wanted this article to be a response to the patriarchal, cisgender, heteronormative society we live in but not only that.

I also wanted the new generations of men who are more open than their fathers and grandfathers to understand that the work isn't over.

I will never forget when a little while after I arrived at my first cyber job, a colleague asked me why I was doing all this work for

women. He didn't think it was necessary. We lived in a democratic country, and women were not interested in Cyber... it was that simple for him...

In those moments, I am always speechless. I went home beating myself up for not having found the words.

So this article is an opportunity for me to show these people that there is still much work to do.

I will first define the terms feminist and hackerspaces to address this topic.

Then I will discuss the importance of feminist hackerspaces and mention some examples of these spaces.

Part I

What is a hackerspace?

According to Wikipedia, "A hackerspace [...] is a community-operated, often "not for profit" [...], workspace where people with common



interests, such as computers, machining, technology, science, digital art, or electronic art, can meet, socialize, and collaborate.” (Wikipedia)

They were born in Germany in the 90s, thanks to the famous Chaos Computer Club (<https://www.ccc.de/en/>) whose original goal was “providing information about technical and societal issues, such as surveillance, privacy, freedom of information, hacktivism, data security and many other interesting things around technology and hacking issues.”

So there is a notion of activism and values of freedom and justice.

After the CCC, many hackerspaces were born worldwide, and this movement took a global scale.

However, very few women went to hackerspaces, and for those who did, they did not stay.

To understand this phenomenon, we must first define what feminism is.

What is feminism?

Defining feminism would take more than an

article. To put it simply, feminism is: “a set of political, social, and cultural movements and ideas that aim to promote equality between women and men by advocating for women’s rights based on the fundamental principle that men and women are equal and should be treated as such in society.” (Wikipedia)

Obviously, over the years, this movement has evolved a lot. Indeed, in addition to fighting for equality, the movement evolved into a desire to demonstrate the hold and domination of men over women.

In a third time, women from minority groups who had been left out in the first waves expressed themselves and created their own movements.

I personally will add that feminism is not only for women but for men as well.

Today feminism has many different trends. However, it is also true that women are still put aside and denigrated in many subjects.

Hackerspaces are no exception to this observation.



Part II

Why feminist hackerspaces?

Because of our social heritage and education, men and women do not invest spaces similarly. In fact, in his interview for *choisir.* ch, Jean-François Staszak, professor of geography at the University of Geneva, mentions: “We do not find men and women in the same places (men are much more numerous in soccer stadiums or skate parks, women are overrepresented in supermarkets in the middle of the day) and their behavior in these spaces is different.

While men consume public space, stroll around, walk around, use it to consolidate their power, and acquire an income, women are consumed by this space. They only pass through it quickly for the needs of their domestic activities. The social acceptability of the presence of men and women in different public places is not the same at different times of the day and night. Women do not, for example, have to be alone in public space at night.”

To support this point, we can also take the example of the Montreal buses that, from a specific time, offer women to be dropped off as close to their homes as possible.

Moreover, the notable activities of hackerspaces are often done at the end of the day.

Feminist hackerspaces were born from the fact that not only women do not frequent hackerspaces. Not because they weren't interested, but because they didn't feel welcome or safe there.

Indeed, as mentioned in Liz Henry's article “The Rise of Feminist Hackerspaces and How to make your own” about the creation of Double Union, the women-centered hackerspace in San Francisco:

“We'd like to build spaces without harassment, without having to worry about jerks, and more ambitiously, with active encouragement to explore.”

The idea is to create a safe space where women feel free to create and explore without pressure, mansplaining, or condescension.

The article also mentions the January 2013

mailing list: “A long and infuriating thread on the *hackerspaces.org* mailing list in January 2013 (Women and Hackerspaces) outlined many sexist and misogynist misconceptions, including that women are just not interested enough in “hacking” to be a large part of DIY, hacker or maker culture.”

In addition to this article, the topic of feminist hackerspaces is addressed by Sophie Toupin. She mentions that to bring hackerspace users together on specific topics, hackerspaces also allow them to meet on shared values of social justice.

She adds that hackerspaces are generally dominated by white men and implicit or explicit “dudecore” culture and are therefore less welcoming to women, queer people, and people of color.

She finishes her point by adding: “Thus, the creation of feminist spaces or safer spaces within hackerspaces is a way to address those issues, while at the same time, creating a safer physical space attuned to intersectional feminist and queer inflections.”

To justify the existence of feminist hackerspaces, she makes an essential point both in terms of inclusivity in hackerspaces and inclusion in cybersecurity in general: “[...] feminist hackerspaces might help individuals put a hacker identity and a feminist identity on equal footing. Therefore, instead of having to hide or somewhat compromise one's identity over the other, those identities might be able to co-exist and flourish, leading perhaps to a distinct form of feminist hacking and/or feminist hacktivism. [...]

Moreover, the idea of creating safer spaces within hackerspaces is a way to invite and/or retain more feminists and gender non-conformists, among others, who might not fully identify with the dominant hacker culture.”

So we understand the importance of feminist hackerspaces. It is a way for people from underrepresented communities to claim to be hackers and to free themselves from societal constraints to advance the feminist cause.

Examples of feminist hackerspaces

To demonstrate the importance of feminist hackerspaces, here are some examples of these places and their innovations and activities.

We can mention “Le Reset” in Paris, an

inclusive hackerspace where cyber-related activities were proposed. It is, for example, at “Le Reset” that I was for the first time initiated to CTF competitions.

We can also talk about Double Union in San Francisco (<https://doubleunion.tumblr.com/>), which proposes activities such as “Social Justice Sci-Fi book club,” “circuit hacking,” and “lockiping workshops.”

Finally, we can talk about Pechblenda, a Catalan hackerspace that proposed, for example, biohacking and scientific investigation activities.

I also invite you to consult the resources of this article which contain websites focused on the subject.

Conclusion

Feminist Hackerspaces make society more inclusive for both women and underrepresented communities.

These spaces allow all of these people to come together and experience a space based on shared values.

We have seen that social codes and the body that inhabits a space is different according to gender, color and love orientation.

The hackerspaces, places of informal knowledge exchange, can be a great source of creativity and places of social meetings with likeminded people.

Moreover, there can be great innovations that come out of these spaces to address societal problems.

However, when I began researching for this article, I realized that feminist resources and hackerspaces can not be maintained.

This is certainly not a matter of lack of interest.

Is it due to lack of fundings? Is it due to the lack of women in the community? Is it simply because hackerspaces, in general, are closing down because the hardware used in these places has become more accessible to individuals? Is it because due to covid everything went fully virtual?

How can we remedy this and allow these spaces to remain open? Is there an effective way to promote these spaces?

What we do know is that when it comes to sharing knowledge, differences fade away because the cyber community is generous and resources are just a mouse click away.

Used resources

Wikipedia: <https://en.wikipedia.org/wiki/Hackerspace>

CCC: <https://www.ccc.de/en/home>

Wikipedia: <https://fr.wikipedia.org/wiki/F%C3%A9minisme>
<https://modelviewculture.com/pieces/the-rise-of-feminist-hackerspaces-and-how-to-make-your-own>

Sophie Toupin: <https://dpi.studioxx.org/en/feminist-hackerspaces-safer-spaces>
<https://www.choisir.ch/societe/societe/item/2869-inegalites-de-sexes-dans-l-espace-public>

Additional Resources for the reader

DIY guide to feminist Cybersecurity: <https://hackblossom.org/cybersecurity/>
Hackblossom resources: <https://hackblossom.org/resources/>



the quest to bring back privacy

– by Kelly Howell.

With the recent focus on big department stores using facial recognition (and a lack of awareness of what happens to that data) as well as the recent Channel 10 TV Show ‘Hunted’, it’s a great time to look at how we are being tracked.

We saw on ‘Hunted’ how simply having a mobile phone with the power on allowed it to be tracked. Although some artistic licence was taken by the producers (TV stations cannot currently legally track our phones) it gave a rather realistic insight into how our adoption of digital technology has made us trackable commodities.

This leads me to ‘The Quest To Welcome Back Privacy’.

At the start of 2021 I was working for a software company and saw an increase in the number of GDPR requests we were receiving using the Mine service. A colleague asked me why are we getting all these requests? I am a privacy advocate so I decided to check out the provider that was facilitating masses of account/data deletion/GDPR requests, so I signed up for their service using my old free email account to test it out.

True to its word, the service makes it very easy to request account/data deletion in the name of the General Data Protection Regulations (GDPR) of the European Union (EU). The GDPR includes something called

the ‘Right to be forgotten’ which basically means that if the data collected is no longer necessary or consent has been withdrawn by the individual that the organisation has a reasonable amount of time (a month is considered standard) to process this request.

The service provided by Mine is quite effective. You allow them access to your email and they will ‘mine’ the data, give you a list of providers that hold your data and then give you the choice on how to treat it. They have a nice user interface that makes it really easy to use.

There are some benefits to this service:

1. It's free
2. It's a fast way to contact multiple providers and get your data deleted
3. It's GDPR compliant

The only drawback to this service is obvious – you are allowing Mine access to the contents of your inbox (so please delete any personal/sensitive information before trying this at home)! I personally went through and searched for key words (Driver's licence/passport/bank/account) and permanently deleted them before allowing Mine access.

Mine was rather impressive, finding mailing lists I had signed up to years ago and contacting them to request my account be deleted.

An example of the email it sends is below:

Hello Company Name,

My name is Jane Doe and I hereby request Company Name (Company.Name.com.au) to erase all personal data that you hold about me.

Please send me a confirmation of complete and permanent erasure of the personal data, once you have completed the erasure process.

My personal details are:

Name: Jane Doe

Email: janedoe@gmail.com

As evidence of my interaction with Company Name, I received an email from your service on 2020 March 31. That message indicates that you are holding personal data about me.

**Thanks,
Jane Doe**

This was effective in removing me from probably 80% of companies. I found many companies that I had signed up with years ago were either no longer in business/ or no longer had that email in use. This left me unclear as to what had actually happened to my data. There's every possibility that my data is sitting somewhere on the internet but for now I'll have to let that go.

One recruitment company took the time to confirm that not only had they removed my data from their systems, but that they regularly were able to access data directly from LinkedIn, and that if I wanted to truly be private, that I would need to remove my data from their as well. That's a whole other story about social media that I plan to talk about in part 2~!

There are also data broker services now (like incogni.com) that offer a similar service for a monthly subscription price (for now Incogni is only working with US/UK/EU/ Canada & Swiss residents but I'm sure it won't be long before they or similar companies offer services to Australian residents).

Please note that Australia (despite having Privacy Legislation and Principles), has no equivalent to the GDPR 'Right to be forgotten'. You can request removal of your data but it's not as clear cut or guaranteed. Some companies also seem to make it painful to get your account/data deleted.

When discussing privacy, Australia also has the Spam Act 2003 which makes it illegal for companies to send you marketing emails that you didn't sign up for

"If a product
is free, you
aren't the
customer.
You are
the product.

duct
our
e-
the



(most legitimate Australian companies use marketing mailing list software that complies with this anyway).

Once I had unsubscribed from accounts, I began to wonder how easy it would be to delete my email account entirely. Due to my vintage I had a few free email accounts to contend with. I started with the oldest ones and deleted my old Yahoo account (which I never used anyway). Then I moved on to my old Gmail account. Ensuring that I had deleted all the emails that I didn't want, I thought it would be easy enough to export what was left to my new encrypted email provider Protonmail.

You can read about secure email providers here. TLDR - free providers track you and mine your data. Some free providers have in the past, been caught mining your email data to identify what you might want to buy based on your data and past purchases (to onsell it). Sure there are some limited privacy options within free email that you can activate (to increase your privacy) but as Michael Bazzell said 'if a product is free, you aren't the customer. You are the product.' Think about that for a minute.

Some providers even have handy data import features which work nicely with Gmail to move your emails to their service for a nice smooth transition. Protonmail took a few goes, but managed to move thousands of emails across (but gave me a list of 8 emails that didn't work).

If you want to know what you can do to protect your email privacy - you can check your own email reputation at emailrep.io. It is worth doing so, to see what information others can see, just from your email address. Of course don't forget to do a Google search of your email. If you haven't already - check Have I Been Pwned to see if your email has been in a data breach. Firefox Monitor is also a handy service that will alert you if there is a new breach.

My journey became labs Sea Party CTF Judge

TRACE LABS
CTF JUDGE

ey to
a trace
rch



March 2022

I watched one Youtube video called “Hackers Find Missing People For Fun” . It touched me a lot. The Trace Labs raised the Global OSINT Search Party CTFs every year to find missing people. This was my first time knowing “ Hacking can be good and fun”. I did my personal online research of all the information online and started my Trace Labs CTF judge journey.

What is OSINT? How to learn OSINT?

OSINT is also called Open-source intelligence. It is the collection and analysis of data gathered from open sources (Media, Internet, Public government data, Professional and academic publications, Commercial data, and Grey literature) to produce actionable intelligence.

Most of OSINT online learning resources are free and public. You can learn it via Youtube, OSINT CTF and twitter etc through searching the keyword “OSINT”. Everyone has their own favorite OSINT learning method. Simon’s blog “Getting Started in OSINT” will be a great one to guide you how to get started in OSINT.

What is Trace Labs? What is the Global OSINT Search Party CTF?

Trace Labs is a nonprofit organization whose mission is to accelerate the family reunification of missing persons while training members in the tradecraft of open source intelligence (OSINT). The Trace Labs Search Party CTF is a non theoretical, gamified effort that allows for the crowdsourcing of contestants to

perform a single task: Conduct open source intelligence operations to help find missing persons. They organized 3 times the Global OSINT Search Party CTFs in March, August and November of every year. The hackers (CTF players) from around the world attended this OSINT Search Party and did the hacking for good and fun. Please see its eventbrite channel “Trace Labs Events | Eventbrite” and its twitter “Trace Labs (@TraceLabs) / Twitter” to know its CTF events information.

What is the Trace Labs Global OSINT Search Party CTF Judge? Who can be its Judge?

The CTF Judges are the volunteers who ensure all the CTF submissions are of high value and contribute to the location of the missing person. The Judge can be the OSINT professionals or the OSINT new starters. You only need to judge with your passions in your hearts, and also give your good feedback to every CTF player. I am an OSINT new starter and have never done any OSINT CTF judge before. The Trace Labs ran a very good judge team to support every new judge during the CTF. Please learn more about the CTF judge through its Trace Labs OSINT Search Party CTF Judge Guide V3 and its Trace Labs Youtube Channel videos

Why do I choose to be a Trace Labs Global OSINT Search Party CTF Judge? What is my take away from this Trace Labs Global OSINT Search Party CTF Judge Journey?

I have never done any CTF judge before. It will be very cool to do something which I have not done in my life. The Trace Labs Global OSINT Search Party CTF Judge journey made my day and support its CTF via my way. I felt the Trace Labs provided a very great Judge training pathway . I can learn more OSINT knowledge and skills through being its Judge. Just be the judge for good, cool, happy and fun.

Thank You!



1. Getting Started in OSINT (From Simon)

<https://www.linkedin.com/pulse/getting-started-osint-simon-howard/?trackingId=odglrESPQsC29Aj6Ip0ahg%3D%3D>

2. Trace Labs Youtube Channel

<https://www.youtube.com/c/TraceLabsVideos>

3. OSINT Framework

<https://osintframework.com/>

4. OSINT Framework Github

<https://github.com/lockfale/OSINT-Framework>

5. Hackers Find Missing People For Fun

<https://www.youtube.com/watch?v=2puBmXfi9Z0>

The Art Of Mac Malware

Defenders must fully understand how malicious software works if they hope to stay ahead of the increasingly sophisticated threats facing Apple products today. *The Art of Mac Malware: The Guide to Analyzing Malicious Software* is a comprehensive handbook to cracking open these malicious programs and seeing what's inside.

Discover the secrets of nation state backdoors, destructive ransomware, and subversive cryptocurrency miners as you uncover their infection methods, persistence strategies, and insidious capabilities. Then work with and extend foundational reverse-engineering tools to extract and decrypt embedded strings, unpack protected Mach-O malware, and even reconstruct binary code. Next, using a debugger, you'll execute the malware, instruction by instruction, to discover exactly how it operates. In the book's final section, you'll put these lessons into practice by analyzing a complex Mac malware specimen on your own.

Volume II: Detection

The second volume of the “The Art of Mac Malware” is a comprehensive resource that covers the programmatic detection of macOS malware code via behavioral-based heuristics.

Armed with topics and approaches covered in this second volume, Mac malware doesn't stand a chance!



Aloha, I'm Patrick Wardle, the creator of the non-profit The Objective-See Foundation, author of the “The Art of Mac Malware” book series, and founder of the “Objective by the Sea” Mac Security Conference.

Having worked at NASA and the NSA, as well as presenting at countless security conferences, I'm intimately familiar with aliens, spies, and talking nerdy.

I'm quite passionate about all things related to macOS security and thus spend my days finding Apple 0days, analyzing macOS malware, and writing both books and free open-source security tools to protect Mac users.

Donate:

<https://objective-see.org/friends.html>

Read volume I, the art of Mac Malware free online at the link below.

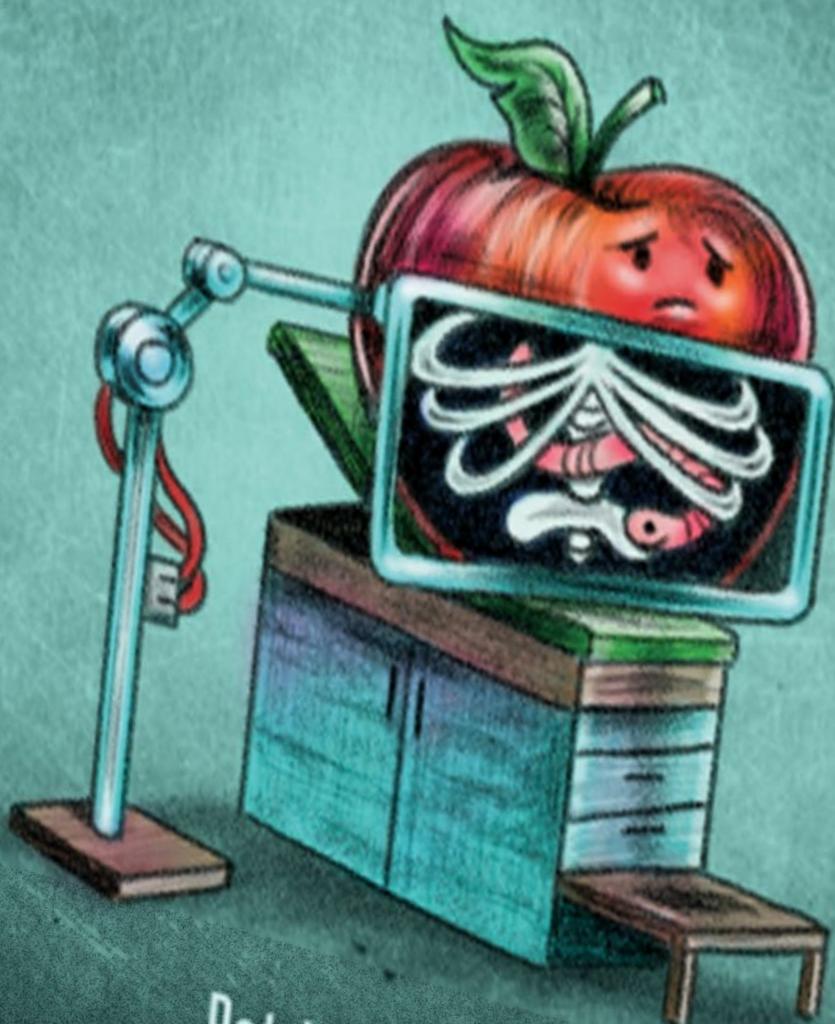
<https://taomm.org/vol1/read.html>

Read volume II, Detection, free online at the link below.

<https://taomm.org/vol2/detection.html>

The Art of Mac Malware

The Guide to Analyzing Malicious Software



Patrick Wardle

HA
V

CK
arts

Prose, polished for reflection

An interview with writer,
artist and academic
Indigo Perry.

by Lil Rd

I have had the privilege to read some of your published literary work and so I am very curious about the elements ie people, experiences, ‘daimonic’ impulses that have shaped and inspired your relationship with the written word....

As a writer, do you perceive yourself as a teller of stories, a weaver of memories and dreams into narrative form that invites ‘the other’ to partake of their essence, to enter into the worlds created in the spaces between words? Or do you inhabit another space/position in relation the writing process?

I write from my own life experience and I am particularly interested in writing about the parts of life that can be very significant to a person but not always talked about or recorded, such as dreams, daydreams, misunderstandings and rumours, false beliefs, and so on. In writing about these imaginative realms and the inner life, set within the telling of the outer life with focus on place, landscapes, interactions with other people, I suppose I am trying to render the ways that my own reality has been throughout my life and to create a mesmerising and sometimes disturbing quality.

I once read a piece of autoethnographic reflection by a writer who articulated her experience of writing as something akin to ‘painting with words’. Is this a quality to which you can relate? Or does writing evoke a different kind of felt sense for you?

It can be useful to see writing as painting with words as this emphasises technique and craft. Ideas for writing mean little without the technical work of crafting sentences, tinkering with pace and rhythm, sound, cadence, and the shaping of imagery. Personally, I see my writing practice as being more closely aligned with other art forms such as film and dance. Film, because I see everything that I write as a kind of three-dimensional film that I am moving through. I am a character in that film that plays out in my mind as I write. I visualise what I am writing in vivid colour and motion as I write by hand or type. Dance, because my writing is very much of my body. As I write, I craft through the physical motion of my hands. I often speak aloud what I am writing, or mouth it silently if I am in a public place. And I am often writing in a public place, as I like noise and motion around me when I write.

Is your art making an extension of who you are?

I don't think they are separable.

For example, is your music an expression/reflection of who are in any moment? An ephemeral impression of your experience.

Can you describe your creative process?

I have a regular writing practice. Like a musician who practises

daily or a dancer who limbers up the body every day, I feel more confident and comfortable in my practice if I write every day or close to it. It does not matter what I write, in that near-daily practice. It is simply an opening of a notebook and writing sentences with a pen. This has been my practice for decades and it means that I am not daunted by a blank page or distracted by ideas of waiting for inspiration.

When I have something more formal that I want to write, I simply begin to write it. I try not to worry about whether or not I am satisfied with the beginning, as that can always be changed or crossed out. I am not a planner, or not much of one. Writing itself guides me in terms of structure and style. But after a day's writing, I do take out my notebook and write a few reflections about how the piece is going and what I think I might change and where I might go next with it. That helps me to get started the next day. But often when I start writing again, something completely different from what I noted down the day before will emerge. I think that I have a useful way of holding imagined structures in my mind. I see the shape of a piece of writing almost like an actual structure, a building of a kind, that shifts and reforms as I write. It's hard to explain, but this structure helps me to hold the piece together as a whole as I explore the writing of its parts.

Do you start with a feeling, an impression, a desire, a memory?

It depends on what I am writing. I always begin with something that is specifically detailed, something that can be received through the senses, through the body. I mostly



ArtyLilRd

avoid writing in abstractions, as I do not find them evocative or affective. I might describe an object, a room, or a landscape that is significant in terms of a memory. Or, it could be the telling of an incident, focusing on intricate details, maybe an evocation of just one minute in time, for example, slowed right down.

Do you use other artistic/creative mediums/modalities to guide/inform/'depth' your writing?

Music has a strong influence on my writing. This may be at least partly because I am interested in time and pacing in writing, and of course music is very much about time and pacing. One of the reasons I speak my writing aloud as I work is so I can hear its sounds. I listen to its musicality. I like to have sound around me when I write. Sometimes, for a particular piece or section, I may seek out silence – that, too, is integral to music. But mostly I like to have sounds near me and to hear the rhythms in everyday sounds such as random conversations, the workings of coffee machines and cash registers, doors opening and closing, that sort of thing. I may also want to listen to music that helps me to evoke the mood of a piece or section. When I was writing my second book, *Darkfall*, a memoir set in the late seventies and early eighties, I listened to post-punk and alternative music from that era. For my current book project, I am listening to disco music by a Turkish musician, as it relates to my subject matter (but that work is at too early a stage for me to give too much away about it!).

Film also influences me, mostly for ideas of pacing and also for how to use dialogue effectively.

And although I write mostly prose, I read a lot of contemporary poetry. I like the way some poets – such as Australian poets Jordie Albiston, Alison Whittaker, Jessica L. Wilkinson – draw attention to gaps, spaces, silences, disappearances, discrepancies, violations through their use of form. This inspires me in the way I craft my life stories.

You have and continue to be involved in artistic processes/projects that actively engage multiple creative modalities including, but not exclusively, text, spoken word, movement/dance, 3D installations, as well as the use of digital technologies such as the digital projection of in-the-moment emergent text upon the moving human body. I'm curious about what moves you in the direction of these multimodal artistic/creative spaces?

I am drawn to those spaces partly through a love of contemporary art in many forms. I first began to work with digital projection of my text in live performance contexts after the publication of my first memoir, *Midnight Water*. That book is about a tragic event in my family, the drowning of my father and brother. After the book was completed, I didn't feel that I was finished with telling that story. It was not a closed book. I started to look for openings, observing other forms and modes of storytelling. I watched an improvisational dance performance and I was attracted to its ephemerality. I began working with the dancers, improvising creative writing text, a kind of poetry-prose hybrid that was projected into the space where they danced. I would delete the text when the performance ended.

The dancers left the performance space, leaving only the memory of what they had done, and I wanted to create a similar experience in writing. I no longer delete my texts after performances or installations, but I continue to work on multimodal projects. Recent ones have included animation and video works.

Has your involvement in multimodal creative projects highlighted for you the possibilities inherent in the co-creative space?

Can you share a little of your recent creative work in Europe in October/November 2022?

I had completed an artist residency at a small fishing village in northern Iceland in January 2020, where I was working on my third memoir. Once international travel became possible again after the border closures, I was keen to return and to do some follow-up research for that book in Iceland, and also to take some time to write there. I also had an opportunity to work in a facilitation role on *No Intermission*, an international performance show in Amsterdam, and that opened up another writing opportunity for me.

I am curious to know more of your experience working with Marina Abramovic and how this has informed your own artistic process. What has been the most important/resonant aspect of this experience for you?

I have had an association with the Marina Abramovic Institute (MAI) for some time, after participating in a *Cleaning the House* workshop presented by MAI in Greece a few years ago. The workshop provided training in the Abramovic Method,



Pixel musings
by d8rh8r



involving a series of disciplinary exercises and conditions that can induce a kind of deep re-set, for artists. Here is an explanation of the Method and workshop: <https://mai.art/workshops>

I had intended to work as a facilitator at No Intermission, a five-night show featuring Marina Abramovic herself and ten commissioned participatory performances by international artists. But my role shifted and I was invited to be present as an observing writer throughout the entirety of the show, which went for six hours on the first four nights and twelve hours on the fifth – with, of course, no intermissions. I also stayed with the artists and travelled with them to and from the show each day, and observed in the back-stage areas. I gathered material for a new creative work – an unanticipated one, which made the process an exciting one for me. The most resonant part so far has been the immersion in the show, behind the scenes, getting to know the ten wonderful artists and the curation and production teams, meeting and spending time with Marina, and being present for the full extent of the show, merging with those who came in through the doors and took part in the participatory works, passing the hours of each night, seeing how the show and the performances evolved.

I once read about a time, long ago, when a group of students completed the Cleaning the House workshop with Marina, and then were each given a desk and chair, with a sheaf of blank paper on the desk and a wastepaper basket underneath. The artists were told to write down all their ideas for performances on the sheets

of paper. They could throw the ideas they didn't like into the bin. When they were finished, Marina came into the room and took all their piles of ideas from the desks and discarded them, and took out the screwed-up papers from the bins, and read those. These ones, I believe she told them, were the ideas that scared them, and therefore were the most interesting. As I took part in No Intermission and moved around the theatre, observing, taking notes, I would think of ideas for what I would write later. And I remembered that story. What I am writing for this new project is still emerging. I don't know what it will be, if anything. But for now, I am following the ideas that scare me the most, and discarding the ones that are too much like what I have done before or what is easy or straightforward for me as a writer and a human.

Is the ritual/transformative/shamanistic/healing/cathartic qualities of art making and creative processes something that you are curious about? If so, in what ways has this curiosity informed your creative process?

Honestly, it does not interest me much to theorise about such ideas. I know, from personal experience, that writing has a transformative effect for me. I have mostly written about trauma experiences, and doing that writing has brought me greater understanding of how I feel about those experiences and has left me feeling more of a sense of agency in what happens to me or has happened to me in my life. But I would rather invest my energy and time in writing creatively than trying to articulate the process in these terms.

What are your thoughts on machines and digital technology as artistic mediums?

Do you feel they deepen or subvert our connection to self, other, the earth?

I am very interested in how we use technology of any kind, whether that is the technology of a pen with ink manoeuvred by a hand or if it is a complex digital technique or medium. This is an extension of my ongoing fascination in how we as humans relate to our surroundings and to objects and all non-human others. The depth of how those relationships are incorporated into art and life will depend on the individuals and on how open they are to listening and watching.

What does artistic/creative endeavour mean to you? Is the journey of creation as much a part of the art as the finished 'artifact'?

Yes, and my interest in creative process relates strongly to why I am drawn to improvisational art and to long-durational performance such as that by Marina Abramovic. As a writer, I have never really been able to separate the process from the artefact, or living from making. It is not a separation that is relatable or that makes sense to me.



MAI explores,
supports, and presents
performance.

MAI is dedicated to long
durational work. Time is
a necessary dimension
for the participants to
experience art fully.

MAI creates public and
participatory experiences
and it is home to The
Abramovic Method, a
continuous project joining
people in a communal
experience to connect
with oneself and with
each other.

MAI is committed to an
inclusive artistic process
for all, through its projects
and workshops.

General Inquiries:
contact@mai.art
Press/Media: press@mai.art



"Raw Brunettes! I seek the Isle of Avalon,
before Arthur.

Angel of Anarchy-fomenting always. Fomenting... I seek the Isle of Avalon, before Arthur.
Where Arthur is no more. I seek the Isle of Avalon, where Arthur is no more. Before Arthur.

Below me my women lurk lurk lurk. Their eyelids are wired for sound,

hair adorned with synchronicity traps. Mouths with psychic lipstick and necks with psychic perfume. Their bodies are wired for multiple orgasms. Hair flailed into a cornucopia of wind.
Psychic water, fairies. Fairy

must. Fairy dust. There are fairies at the top of my sky. Ooooh. Look at her legs, her left thigh. There on the flesh is set the tattoo of the Raw Brunettes. Caliginous against the pale skin, under the dark fishnet stockings. The sign. Precognitive hand. Telepathic hips.
Psychic sex. Psychic fish. Water flower. Japanese water flower paper thin as coloured water
thin paper coloured water floating delicate as sleep.

Angel of Anarchy! Unwind into our brains across the centuries of dead time and space called History. Explode into our consciousness rushing water tidal wave tsunami. Drown our pasts and future. Hissing water slapping gigantically, white froth foaming into acid lace around women. Rising most around the Raw Brunettes. Waves reach into space. An enormous sheet of water light-years across

engulfs the solar system, advancing towards earth. Space tidal wave
crashing over the planets, the galaxies. Cacophony of water. Raw Brunettes alert!"

Lorraine Schein 'The Raw Brunettes'

the last word

with
Charlie Hales

You've been with Waterstones a long time, started at the bottom on service and worked your way up to director of Waterstones Australian operation. That kind of company loyalty has been lost in most industries these days, why do you think that is?

I started my tech career many years ago (more than I'd like to admit!) and worked at many other companies before Waterstones. So, it's Waterstones where I stopped moving around. I think people have to find their "home" before they will do that, and people need to test the waters right first? I do think it is normalised a lot more now than when I was younger with people jumping from place to place to try to work their way up the ladder quicker.

Unfortunately, though that can be detrimental for some, they don't get the benefit of experience or actually liking and enjoying going to work when they chase the money and instead of enjoying the job. I could get more elsewhere working for another massive company, but I'd much prefer loving my job and having the right values and culture to allow me to have a better quality of life. Unfortunately, some don't see it like that anymore and I think that's why it's the way it is..

As a business leader ,does the job hopping effect your ability to confidently expand and move the business forward?

No, it doesn't. The right ones will stay. It is a shame, and work needs to be done to replace them when people leave, but sometimes it's best for all and it's always great to see someone to succeed and spread their wings and I can think I helped them get to the next rung on the ladder. We totally invest in our people, and I know it's a cliché but I do totally believe in training the people enough so they can leave

but look after them, so they don't want to. That will not work for all but offering the culture and values we do (I know I'm biased) helps!

What was it about your journey at Waterstones that has kept you faithful for all this time?

The culture and values 100%. I'd never worked for a company that empowered you so much and didn't have the red tape. It was no longer about who you knew, and they valued each individual and people who put the work in got well rewarded. It's been such a fun and family orientated company too. And I have passionately brought that over to Australia with me and it's not been perfect but really is part of the foundations I've built here.

Do you remember your first ever interaction with a computer? Tell us about that?

Erm... do I have to, shows my age, remember dial up.. It was before that! ☺ I'll tell you about an earlyish one I enjoyed. In university (before I realised I wanted to be in IT) I was coding a new head up display for a Blackhawk Helicopter to use in the simulator. I remember how much I loved the coding and thinking about how that would be projecting the landscape and the display I'd developed. So not a physical computer but the logic and thought process into developing it fascinated me and was one of the main reasons I went from Aerospace Engineering to IT!

I've skirted around it long enough... As a group that has been discriminated against, often paid less and generally just had a bad time of it, what has been the greatest challenges you've faced being English?

Bhahahaha! Yeah, being a pom here is the hardest! And form the North East of England I have a fairly strong accent!!

Seriously though, in an Industry that could up until quite recently make a Klan rally feel multicultural, have you encountered push back as a woman?

It's been there, but I've had it all my life. I was the only girl on my degree course. So, I've always naturally tended more towards what has historically been defined as male industries. There have been ups and downs,



one company I worked for I was overlooked all the time as a women and people dismissed my ideas (that later proved to be correct). I didn't stay there long; I will not tolerate it. I've come across some men that then also thought they could talk down to women but I'm fairly strong willed and put them in their place. That shouldn't have been the case though and people (everyone!) need to have a zero tolerance for it. On a positive though I have also had big positives, 8 years ago I was promoted when pregnant, even these days people would be overlooked for that. So, it's been changing in the right companies for some time but needs to now be the same in all sectors and industries.

Do you think, at the top of your game, you have an inherent responsibility to be a role model for other driven young professional women out there?

Absolutely but its not just down to women in "top jobs" to do this. It is everyone's job. We need to break down the social bias when anyone of any diversity works in any sector. Or even when a woman goes to work full time and is the main breadwinner. Why is that still not ok with some people?? Can you tell I still get the sly eyebrow from some people when that comes up.. I encourage women and anyone of any diversity to challenge any barriers and also welcome anyone approaching me for support if they're seeing bias and I won't be able to answer every question, but I'll do my best to support anyone.

The new kid on the block here in Australia, what is it about the "Waterston way" that

is making inroads for you into the very competitive Australian cyber security market?

I smile due to the fact people talk about the "Waterstons way" and I'm sure Mike and Sally Waterston who I learnt so much from will too! It's hard to describe but it's about having people in our teams that truly get our culture, values and how we work as a business and deliver work for our clients. And ultimately its our people making inroads with businesses as they're truly the best at what they do and ensure the client is getting the best possible value for their business. Its not pay here and we'll deliver x, we also challenge, make recommendations, and go the extra mile. We're yet to have an unhappy customer in Australia.

Since the Medicare breach, the attacks have been coming thick and fast. As a nation, we are a soft target and really need to up our game before something really serious happens. If you could implement one security control, instantaneously across every Australian enterprise what would it be?

Just one...?? From a tech point of view MFA I'd say but if you asked me the first step a company should take it would be to understand their cyber risks. Once a business understands their risks (its not the same for all, a university needs to protect Student data, a manufacturing company their production line) then they can ensure they're picking the correct security practices for them.

And last one...

Technology definitely still has a reputation as a bit of a boy club, what advice would you give to a young woman, passionate about technology who was considering a career in Cyber security?

Go for it! The tides definitely turning, there's a skills shortage so it's your time to shine with so many opportunities. And give me a call, we may have a job for you ☺

2022 has been a thrilling year for myself and the team.

It's been a pleasure to work together with our clients to solve their business challenges.

We certainly couldn't have done it without our team.

Their dedication and commitment to our clients is truly amazing.

We have big plans for 2023, I'm excited to see what doors we open next year.

*Charlie Hales
Managing Director, APAC*



Waterstones Australia

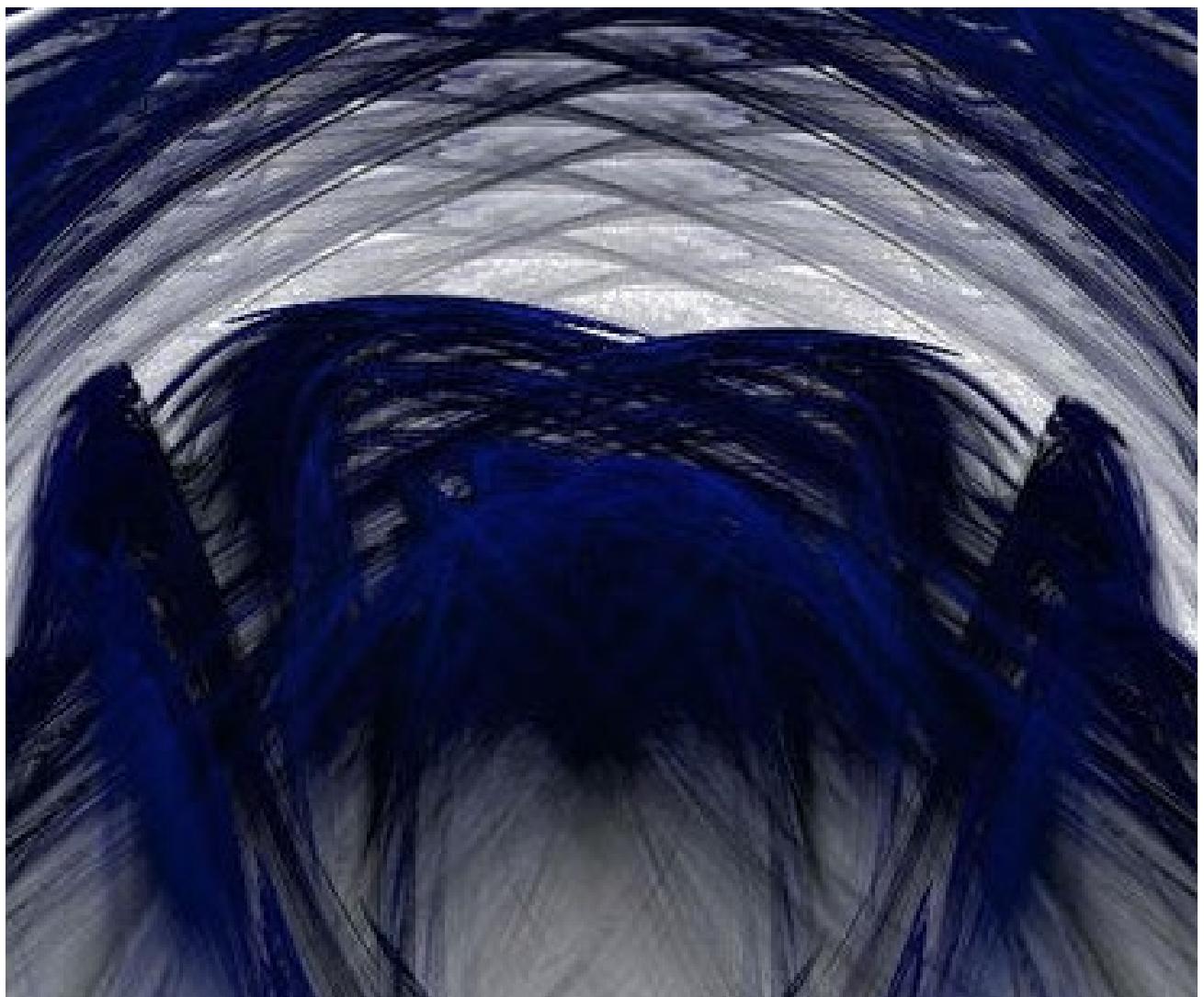
We are an IT business with a difference.

Business-focussed and consultancy-led, we're not all about technology. Our specialist consultants work with businesses large and small, helping them define, design, develop, deliver, implement and support technology, process and governance architectures to improve business performance and deliver competitive advantage.

Our core services work in partnership with customers to deliver business-led solutions to business problems by leveraging the entire technology and systems landscape. Our business consultants work with business stakeholders at the strategic level to understand business process and find ways to improve business performance. Our Software team develop unique solutions to help deliver perfect-fit systems solutions. Our Technology specialists work with you to design a technical architecture that meets business needs now and in the future, and provide support to keep your business running. And our Cyber Security experts help you to build a resilient and secure IT service that will keep your business running against all odds.

Our company is built on exceptional people, honesty, trust and integrity. Our culture is our differentiator; we only embark on work that adds real business value, and our values fuel creativity and innovation in everything we do.

Our expert consultants are highly knowledgeable in many industries to ensure we understand your business, the market in which you operate, and the challenges you face. We deliver value-led technology and systems solutions, not off-the-shelf 'commodity IT'. We're different to our competitors, and if you'd like to know more, please get in touch to find out how we can become a trusted partner in your business.



HACK

wireless edition

submissions are now open
or February issue..

