

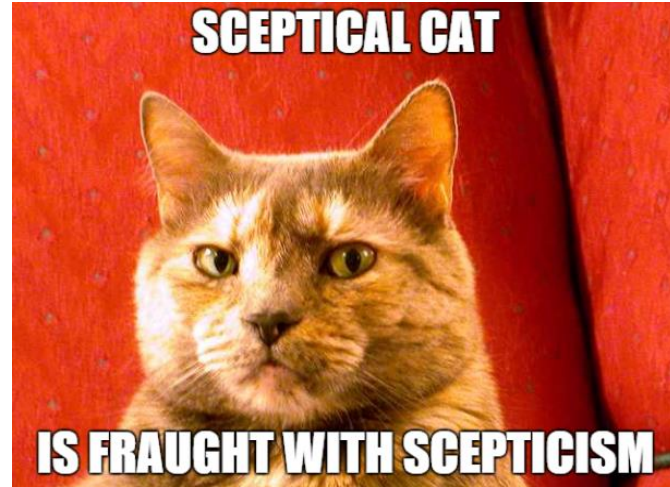
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30.12.2015

[#32c3](#)

“I feel like a criminal and I have to  
be god at the same time”:  
Perceptions of hackers and hacktivists





(Source: Wikipedia, 2015)



(Source: Defence Images, 2008)

# Funding

- Department of Employment and Learning
- School of Politics, International Studies & Philosophy
- Part-Time Job as Tutor/Teaching Assistant
- Additional Scholarships:
  - Larmour University Scholarship
  - Santander Mobility Scholarship
  - Travel Scholarships

# What to expect

- Critical Security Studies
- An analysis of the **consequences** and **effects** of the (in)securitisation of hacking and hacktivism on the **understanding, practices, and identity** of hackers and hacktivists
- But: Through their eyes, by giving them a voice

# Overview

- Hacking / Hacktivism
- (In)Securitisation
- Method
- Results
- So what
- Q&A





# Hacking

- Hacking relates to computer hacking and comprises activities ranging from
  - gaining **unauthorized access** to systems or data (Cresswell, 2010)
  - manipulating technology for **unorthodox means** i.e., (re-)constructing networks (Turkle, 1984)
  - to the production of **free software** (Coleman, 2013; Kelty, 2008; Postigo, 2012)
- In that sense, any form of hacking could be considered as a **technique**

# Hacktivism

- Hacktivism is a form of **political activism** performed through hacking techniques
- Hacktivists try to achieve a certain political and societal change, shift, statement, and/or behaviour in alliance to their **values and/or ideology**
- Activities **stretch** from illegal to legal, “constructive” or “deconstructive”, to “in alliance with your world-views” and against

# But...

- Terms are **controversial**
- Ambiguity: Perceive or portray hacking/hacktivism in the light of actions you **support/oppose**
- Issues around **misrepresentations**
- Activity and collectives standing behind hacking and hacktivism are increasingly becoming subject of a **security and threat construction**



# Securitisation

# InSecuritisation



# InSecuritisation

- Security issues do not necessarily reflect the objective, material circumstances of the world (Balzacq, 2013)
- The naming and framing of security/insecurity is a political act (Bigo, 2014)
- Thus: Security is always **relative** and consequence of a **(in)security construction**

# InSecuritisation

- The task is to understand **how** and **why** this (in)securitisation process happens and to identify the **effects** of it (Huysmans, 1998)
- ...and that is basically what I am trying to do.



# Method

- **Research Design**
  - Qualitative
  - Semi-structured, nonrecurring interviews with self-identified hackers and hacktivists
- **Data**
  - N = 35; hackers (n = 17) and hacktivists (n = 14) or used both terms (n = 4) to describe themselves; (female: n = 6; male: n = 29)
- **Data Analysis**
  - Transcribed verbatim on Tails: e.g., P1
  - Thematic analysis (Braun & Clarke, 2006)



# Results

- (In)Securitisation has an effect on their understanding:
  - **Identity**: Misrepresentation leads to differentiation
  - **(In)Security**: Treat to privacy/security leads to increasing investment in security
  - **System**: Mistrust in authorities/hierarchies leads to activism/hacktivism

# Results

- From the interviews **two** different insights could be gained:
  - **External**: What participants think is happening
  - **Internal**: How they resist this process

# Identity

Identity: External

# The Other

- The **Criminological Other** (Sheptycki, 2007)
  - Use a “categorisation that is lump-sided, broad and [where] a lot of people [would] fit in” (P3)
- **Duality** of perception
  - “[I] feel like a criminal and I have to be good at the same time” (P22)
- Similar: Folk Devil (Sauter, 2014) and other stigmatised groups e.g., immigrants

# Equation

- Stereotypical portrayal
- Cultural outsider
  - “terrorists” (P14)
  - “weirdos” (P3)
  - or even “sociopaths” (P3)
- Similar: Greenwald (2014)
  - Personal life entangled with political acts

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'Babyface hacker who paralysed a phone giant': Son of a single mother, TalkTalk suspect, 15, is violent video game addict who rarely leaves his bedroom

(Source: Daily Mail, 2015)



# Scapegoating

- **Instrumentalisation**: The purposeful attempt to pull them towards that
  - “stupid word that they use ‘**cyber**’, ‘cyberwarfare or ‘cyberwarrior’” - all this nonsense” (P1)
- Cybersecurity vendors would
  - “love hacktivists, 'cause they gonna help [them] **sell all kinds of crap**” (P22)



(Source: CSFI, 2015)

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(Source: CNBC, 2015)

Identity: **Internal**

# Broadening the term

- Both are “**broad**” concepts (P3, P4, P5, P8, P10, P15, P18, P21, P26, P29, P35)
  - “innovating” (P10)
  - “providing “shortcuts” (P18)
  - “finding truth” (P1)
- Being a hacker/hacktivist
  - “**mindset**” (P1, P3, P6, P8, P9, P10, P21, P23, P26, P28, P34)
  - “attitude” (P28, P34)

# Distinguishing themselves

- Highlight **diversity**
  - Legal/illegal, white/black, positive/negative
  - Emphasise that “hackers are not just black hats” (P25)
- **Oppose certain hacks**
  - E.g., against the “media” (P21), “private individuals” (P12, P27) or “critical infrastructure” (P17, P23, P33, P34)

# Reclaim/clean the term

- Keeping the term “**clean**” (P17)
  - Hacking versus cracking
  - Official organisations
- **Reclaiming** the words
  - For example, the CCC “managed to make it a positively connoted term, which is not the case in many other countries” (P14)

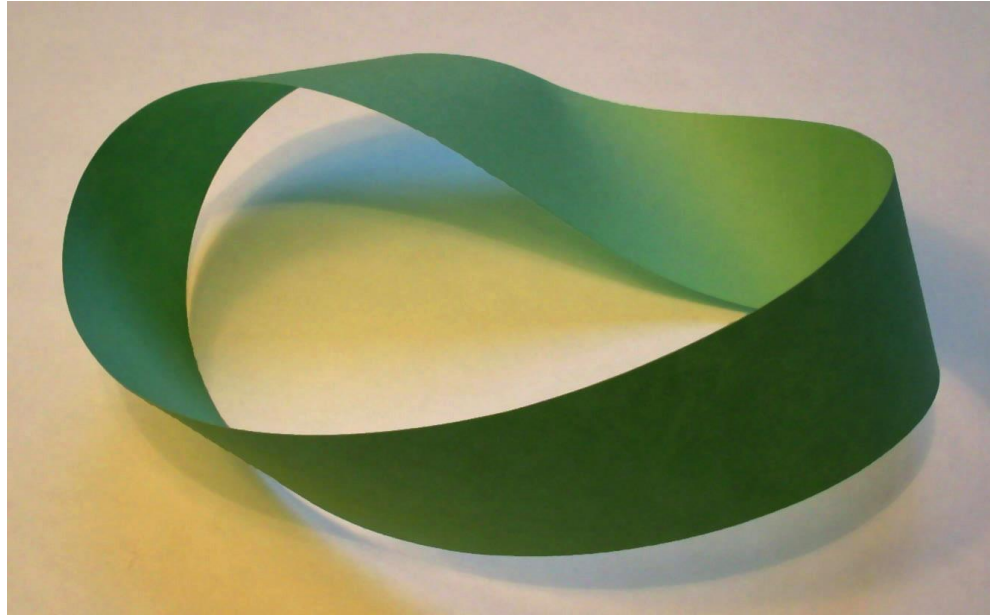
# Flexible Identity (1)

- Issues around **self-identity** as participants would
  - “never [use this term to] introduce myself like this” (P14)
  - Not “define myself as a hacker when I am talking to them [politicians]. Ah... because in [X] it has negative connotations to it” (P7)
- Even though they **acknowledge**:
  - “I am falling into this category” (P29)
  - ...and agreed to participate in this study

# Flexible Identity (2)

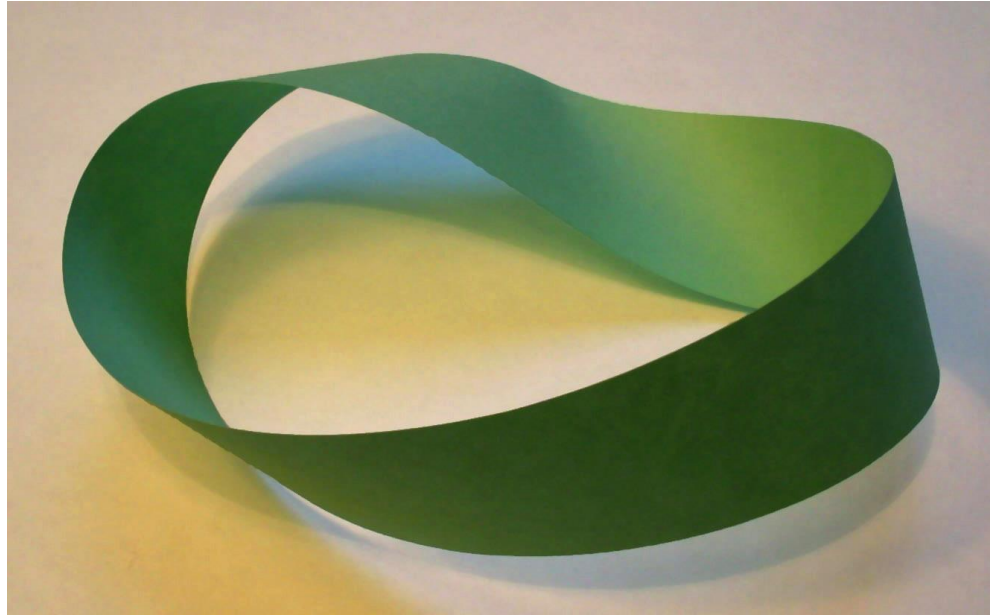
- **Security Researcher** versus Hacker
  - “I have been asked by an immigration officer once if I was a hacker. And that was kind of funny. I told him I was computer security researcher \*ahm\* I am not sure what exactly he meant by hacker; and this has happened to a few of my friends (...)” (P15)
  - There are “**some situations** where I am a hacktivist. There are other times when I’m a security guy” (P6)





(Source: Benbennick, 2005)

# Connotation - Meritocracy



(Source: Benbennick, 2005)

# (In)Security

(In)Security: External

# Erosion of rule of law

- Increase of surveillance, legislation and censorship
  - People’s “rights are getting circumscribed” (P27)
  - The “internet has been criminalised” (P26)
- But that’s a **fallacy**
  - Even though risks are “inevitable” (P4)
  - “people [would] choose a false sense of security over the necessity of privacy” (P18)

# Exaggeration/Overestimation

- According to participants threats are “**hyped up**” (P29)
  - “Or like General Alexander goes ‘Anonymous could take down the power grids’ - bullshit. It’s complete bullshit, (...) it's so far from anybody's technological capability” (P21)
- Thus, “they have **mistaken** the security vulnerability” (P24)

# Feeling of insecurity

- Climate results in **culture of suspicion**
  - Getting “stopped at airports” (P1),
  - Being “anxious when someone rings the door bell” (P16)
  - Facing “personal repercussions” (P28)
- Participants consider losing “**control**” (P8, P10, P25) of their own safety, privacy, and independence

(In)Security: **Internal**



# Ecosystem

- They are *\*the\* security in the system*
  - “Hackers would find a security loophole, the manufacturer is then forced to close this security loophole, whereupon again other hackers or the same hackers come along and would find new security loopholes” (P17)
- Ongoing process of *improvement and awareness raising*
  - It’s like “product testing” (P19)

# Irresponsibility

- **Responsibility** and **liability** for hacks are seen by others
- They would **not increase the risk**, the loopholes are already there
  - “[n]ot to hack is the biggest security risk of all, because **someone will exploit things**” (P19)



# Personal security

- Investment in **individual security** measures through
  - Use of “encryption” (P1, P2, P3, P6, P9, P18, P22, P23, P24, P26, P35)
  - Software to “disguise one’s personal identity” (P27)
- This stands in **contrast** to state who constrains personal security in order to secure the collective

# System

System: **External**

# Missing third actor

- Lack of civil society involvement
- **Politics**
  - Lack of **ability to get heard**: “governments are out of touch with what a definition of a hacker would be” (P29)
  - Lack of **knowledge** “out of touch with technology” (P17)
- **Industry**
  - Focus on the “**wrong**” (P5, P25, P35) expertise – “business-blabbers” (P34)
  - Industry: “way too much **vested interests**” (P7)
  - Critique on “**revolving door**” (P1)

# Scepticism

- Towards power and privileges both in relation to **societal and technological systems**
  - Doubt in networked infrastructure “very, very vulnerable at every single level” (P4)
  - **Comparison** between attack on “hierarchical [computer] systems” (P15) and political corruption
  - Focus on: decentralisation, distribution, and heterarchy
  - Best example: Anonymous

# Hypocrisy (1)

- Interviewees emphasise that both the public and private sector apply hacking methods
  - Aiplex “could use an illegal action [DoS]... like, against ah against... against the PirateBay and they were **getting away with it**” (P2)
- Highlights a “**double standard**” (P16)



# Hypocrisy (2)

- Governments “know about **exploits** in software (...) part of their armoury” (P9)
  - Purchase of zero-days
- Frustration as “governments **don’t operate within that [legal] framework**” (P1) that is applied to them
  - Thus, “the preservation of security within the internet is not assured by intelligence agencies” (P11)

System: **Internal**

# No collaboration

- **Rejection** to work for state institutions, specifically intelligence agencies and the police
  - Germany: “such a strong **delineation** from state hacking, or from commercial hacking” (P28)
- They are aware that
  - “they use hackers” (P25)
- There is: **Internal disciplining**



# Internal “policing”

- Participant highlights restrictions:
  - “If you are **working for the FBI** in the United States of America because you think the technology they are using is absolutely awesome or because you are technically interested – there this is **absolutely legitimate**. Independently of the purpose. However, if you do the **same thing in Germany**, then people would **kick you out from the [Chaos Communication] congress**. You are simply not allowed to think of it as awesome, because it is evil.” (P34)

# Politicisation

- This ties in with the idea that
  - “the hacker scene [has] become in, in... well, in conflict with politics and has due to this become **politicised**” (P14)
- Consider themselves as the moral “**counterparts** of the industry” (P17)
- Engagement in “**advocacy**” (P35), “internet activism” (P21), and support of digital rights organisations

# Hacktivism

- Identify a **two-way dynamic**:
  - (a) The broader hacking community has become politicised, while
  - (b) **New kinds of hackers** i.e., hacktivists developed
    - “Well, I am probably, I would probably consider myself as both. Yet, I am coming initially more from the traditional hacking-scene” (P14)
- Belongs to “**younger generations online**” (P35)
- Counterbalances the **devaluation of traditional protest forms**



# In Summary

- **Identity**
  - Criminological Other / Equated with cultural outsiders / Scapegoated
  - Broaden / Distinguish / Reclaim and clean / Flexible identity
- **(In)Security**
  - Erosion of law / False sense of security / Exaggeration, overestimation / Feeling of insecurity
  - Ecosystem / Raise awareness / Irresponsible for security flaws / Invest in security and privacy
- **System**
  - Missing the third actor / Scepticism of societal and technological systems / hypocrisy
  - No collaboration / Internal disciplining / politicisation, hacktivism



So what?!



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# Thus...

- **Sociology** of a group that has so far predominantly been talked about rather than given voice to
- Study/critique what (in)securitisation **does** to groups of people
- **Counterbalance** dominant research foci
- **Demystify** the position, practices, and perception of hackers and hacktivists within society
  - Reclaim?
- Developing code and hacking as one possible and valuable form of the **involvement** of people in the political discourse

Thank you.

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Grumpy Cat: <http://cdn.meme.am/instances/56975587.jpg>

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Attribution Dice: <https://twitter.com/AttributionDice/status/578189834881134592>

# Limitations

- **Representativity**: Research Design
  - Qualitative research
- **Data**
  - Lack of information about participants
  - Diversity of the sample
  - Inability to talk freely about their practices

# Interview Questions

- What **is** hacking/hacktivism for you?
- Could you please talk a bit more **about yourself**? What makes you a hacker/hacktivist rather than an activist/hacktivist?
- What is your **motivation** for being a hacker/hacktivist?
- Could you explain to me what you normally **doing** as a hacker/hacktivist? What are the activities you conduct?
- Do you think hacktivism is a **legitimate** form of political activism?
- How do you **feel** as a hacker/hacktivist in the current societal and political climate?
- What is your feeling and **perception** of the ongoing internet security debates?
- What needs to **change** in the current debates about internet-related policies?
- If you had the chance to **influence** the public opinion about hacking/hacktivism, and make a statement which would be heard by everyone, what would you say or let them know?