



Thomas Vissers

Curriculum Vitae

Summary

Thomas specializes in the intersection of cyber security and data science. He leverages data-driven approaches to detect attacks, abuse, fraud and security risks. Today at Cloudflare, Thomas builds such models at an Internet-wide scale. Previously, he delivered machine learning-based anti-abuse systems for the .eu TLD. Thomas holds a PhD in Computer Science and has published and presented at multiple top-tier security conferences. He has worked at high-profile companies and research labs across New York, London, India and Belgium.

Experience

- 2019–Curr. **Security & Data Science**, *Cloudflare*, London, UK.
Developed Cloudflare’s behavioral analysis and anomaly detection system for their Bot Management product.
- 2018–2019 **Postdoctoral Security Researcher**, *imec-DistriNet*, *KU Leuven*, Belgium.
- 2013–2018 **Security Researcher**, *imec-DistriNet*, *KU Leuven*, Belgium.
Worked on applied industry research projects with real-world deployments. Research focused on data-driven internet security topics such as domain name abuse, denial-of-service attacks, cloud security and DNS vulnerabilities.
- Selected main-author publications:**
- “*The Wolf of Name Street: Hijacking Domains Through Their Nameservers*”
Published at ACM CCS 2017, Dallas, USA.
 - “*Exploring the ecosystem of malicious domain registrations in the .eu TLD*”
Published at RAID 2017, Atlanta, USA.
 - “*Maneuvering around clouds: Bypassing cloud-based security providers*”
Published at ACM CCS 2015, Denver, USA.
 - “*Parking sensors: Analyzing and detecting parked domains*”
Published at NDSS 2015, San Diego, USA.
- Fall 2016 **Visiting reseacher**, *Stony Brook University*, New York, USA.
Research on DNS nameserver hijacking
- Spring 2013 **Visiting reseacher**, *Anna University*, Chennai, India.
Research on application-layer denial-of-service attacks and mitigation in cloud environments.

Education

- 2014–2018 **Doctorate (Ph.D.)**, *KU Leuven*, Leuven, Belgium.
Engineering: Computer Science. *Supervisor: Wouter Joosen*
- 2012–2013 **Master of Science (M.Sc.)**, *University of Antwerp (formerly Artesis)*, Belgium.
Engineering: Electronics - ICT. *Magna cum laude*

Thomas Vissers – London – UK

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1/2

2009–2012 **Bachelor of Science (B.S.)**, *University of Antwerp (formerly Artesis)*, Belgium.
Engineering: Electronics - ICT. *Magna cum laude*

Miscellaneous

Spring 2015 **Data Mining**, *KU Leuven*.
Course from the Master of Artificial Intelligence

Spring 2014 **SecAppDev**, *secappdev.org*.
One-week course on secure application development.

Security community

Program committee, *Traffic Measurements for Cybersecurity (WTMC)*, 2020.

Reviewer, *IEEE Access*, 2019.

Reviewer, *Computer Communication Review (CCR)*, ACM SIGCOMM, 2018.

External reviewer, *ESORICS*, 2017.

Program committee, *eCrime*, 2017.

External reviewer, *IEEE S&P*, 2017.

External reviewer, *IEEE Euro S&P*, 2016.

Talks and lectures

Jul 2018 **Splunk**, *External Speaker Series*, San Jose, USA.

Nov 2017 **ACM CCS 2017**, *Conference on Computer and Communications Security*, Dallas, USA.

Oct 2017 **M3AAWG**, *Messaging Malware Mobile Anti-Abuse Working Group*, Toronto, CA.

Sep 2017 **RAID 2017**, *Symposium on Research in Attacks, Intrusions and Defenses*, Atlanta, USA.

Feb 2017 **SecAppDev**, *Lecture on "Denial-of-Service Attacks: Solutions and Pitfalls"*, Leuven, BE.

Sep 2016 **OWASP Chapter Meeting**, Brussels, BE.

Oct 2015 **ACM CCS 2015**, *Conference on Computer and Communications Security*, Denver, USA.

Feb 2015 **ICCS 2015**, *International Cyber Security Strategy Congress*, Leuven, BE.

Feb 2015 **NDSS 2015**, *Network and Distributed System Security Symposium*, San Diego, USA.

Jul 2014 **HotPETS 2014**, *Hot Topics in Privacy Enhancing Technologies*, Amsterdam, NL.

Languages

Dutch **Native speaker**

English **Fluent**

French **Good working knowledge**

German **Working knowledge**