

Námskeið í **netöryggisfræðum**

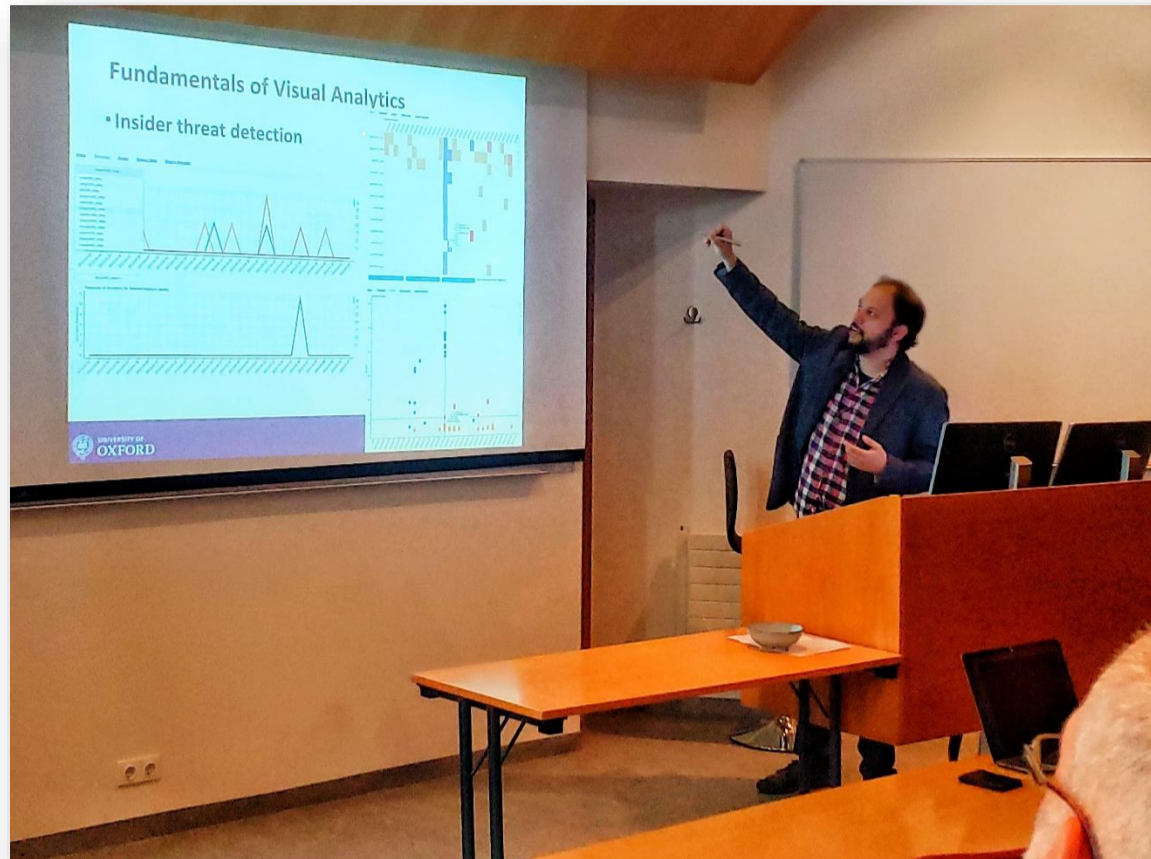
á vegum **samgöngu- og sveitastjórnarráðuneytis og Netöryggisráðs**

Kennari: Dr. **Jassim Happa**, tölvunarfræðideild Oxford-háskóla

Staður: **Endurmenntun Háskóla Íslands, Dunhaga 7**, fyrirlestrarsalur: Náma

Nánari upplýsingar um Dr. Jassim Happa og störf hans: <https://www.cs.ox.ac.uk/people/jassim.happa/>

Þátttaka er gjaldfrjál en senda þarf beiðni um skráningu til sigurdur.palsson@srn.is eigi síðar en 10. jan.



Mynd frá svipuðum fyrirlestri Dr. Jassim Happa í ágúst, 2018

Dagskrá námskeiðs (með fyrirvara um breytingar, námskeið er kennt á ensku)

Mánudagur 14. janúar 2019:

- **Staðfesting skráningar.** (8:40 – 9:00)
- **Session 1: Introduction to Cybersecurity.** (09:00 – 12:00)
 - What is cyber security? Common vocabulary.
 - Examples of cyber attacks/good and poor security principles.
 - Risk management, classification standards and attack models.
 - Human Factors.
 - Ethical Hacking.
 - Practices and Challenges in baselining and benchmarking security.
 - Security in IoT and the supply chain
- **Matarhlé (12:00-13:00)**
- **Session 2: Security Architectures.** (13:00 – 16:00)
 - A brief history of security architectures.
 - Security Stack and Defence in depth.
 - Resilience and Robustness in Security.
 - Anomaly/Misuse detection.
 - Security Operation Centres.
 - Insider Threat Detection.
 - Security Policies.

Priðjudagur 15. janúar 2019:

- **Session 3: Visual Analytics.** (09:00 – 11:00)
 - Situational Awareness
 - Visual Analytics for security
 - Examples
- **Session 4: Privacy by Design.** (11:00 - 12:00)
 - What is privacy?
 - Privacy vs Security
 - Data and Meta-data
 - Privacy by Design.
 - What is the General Data Protection Regulation?
 - Stakeholders, Challenges and implementations
 - Privacy Engineering and Software Engineering
 - Legal speak to Technical speak
 - Existing implementation frameworks
 - Models and Engineering Frameworks for privacy.
- **Matarhlé (12:00 – 13:00)**
- **Session 5: Cyber Law** (13:00 – 16:00)
 - Software development challenges: Legal Speak to Tech Speak
 - Law and Security challenges in automation:
 - Artificial Intelligence
 - Decision making
 - Safety and Security
 - Architecting and baselining challenges