

Advancing Cybersecurity Education to Human-Level Artificial Intelligence



Challenge:

- Making simplifying assumptions about cybersecurity behaviors (e.g., rationality)
- Learning superficial description of reality (e.g., association)

Solution:

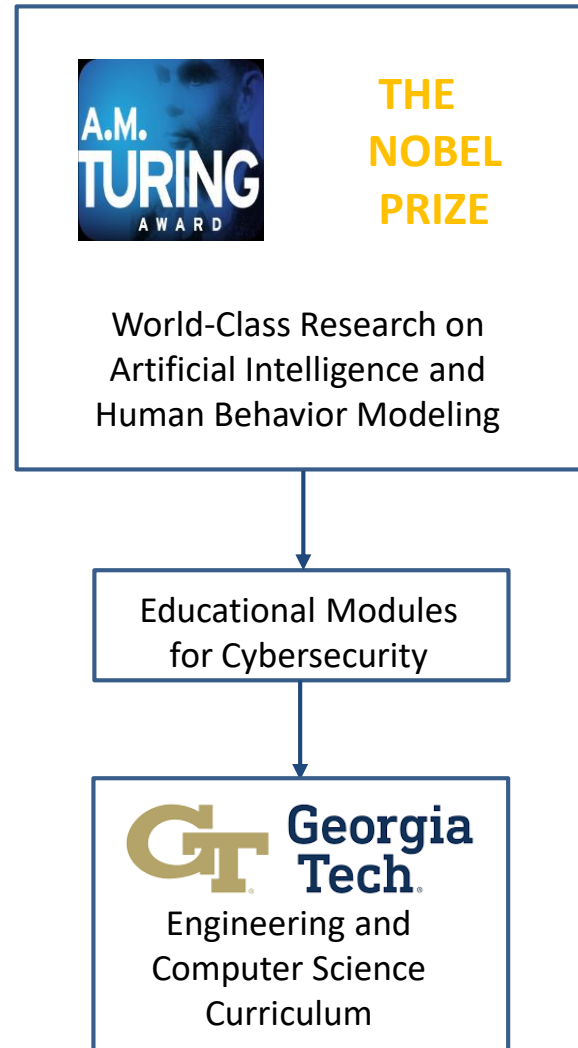
Integrate world-class research on artificial intelligence and human behavior modeling in educational modules:

- Provide thorough understanding of cybersecurity behaviors
- Learn causal (vs. association) relations from data
- Assess student learning

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Scientific Impact:

- Create curriculum modules focused on artificial intelligence in cybersecurity and infused with real-world scenarios
- Prepare cybersecurity researchers who can develop realistic computational models

Broader Impact and Broader Participation:

- *Engineering and computer science education:* Explaining crosscutting cybersecurity concepts in a computational form
- *Artificial intelligence Research:* Collaborating with other disciplines to mimic human thought process