



Overview: Isaac L. Auerbach Cybersecurity Institute was established to foster cybersecurity research, education, and community engagement at Drexel. Our 19 faculty affiliates (pictured on reverse) come from four Colleges (Computing & Informatics, Engineering, Arts & Sciences, Business) with collective expertise spanning a wide range of **cybersecurity topics**:

Network anomaly detection	Multimedia forensics and anti-forensics
Malware identification, classification, and mitigation	Privacy and security
Wireless key generation and wireless reactive jamming	Hardware security
Mobile / desktop user authentication	Sentiment analysis
Data mining and identity theft	Computer crime
Security for cyber-physical systems	Trust management systems and fraud
Software security and reverse engineering	National security policy

Drexel cybersecurity **research funding** includes support from the following agencies:

NSF Secure and Trustworthy Computing (SaTC)	Defense Forensics and Biometrics Agency (DFBA)
NSF Division of Advanced Cyber Infrastructure (ACI)	Office of Naval Research (ONR)
NSF Cybercorps Scholarships for Service (SFS)	Air Force Research Labs (AFRL)
NSF Faculty Early Career Development Program (CAREER)	National Security Agency (NSA)
DARPA Active Authentication Program	Department of Justice (DoJ)
DARPA Integrated Cyber Analysis Systems (ICAS)	National Institute of Justice (NIJ)

These grants comprise more than \$10M in research funding over the past nine years, for more than 25 projects supporting more than 15 faculty. Recent **cybersecurity publications** by Drexel faculty have appeared in:

ASIS Security Journal	IEEE Transactions on Information Forensics and Security
Information Security Solutions Europe (ISSE)	Unix Security Symposium
Intl. Conf. on Quality, Reliability, & Security (QRS)	Intl. Conf. on Malicious & Unwanted Software (MALCON)
IEEE Intl. Wkshp. on Info. Forensics & Security (WIFS)	IEEE Intl. Symp. on Software Reliability Eng. (ISSRE)

Recent **Ph.D. theses in cybersecurity** include:

Name	Advisor	Employer	Thesis
B. Katz	Kapil Dandekar	-	Enabling Real-Time Wireless Channel Based Encryption Key Generation
T. Huang	Sethu/Kandasamy	Akamai	Adaptive sampling & statistical inference for anomaly detection
A. Caliskan	Greenstadt	Princeton	Stylometric fingerprints and privacy behavior in textual data
R. Canzanese	Mancoridis/Kam	Sift Security	Detection & classification of malicious processes using system call analysis
A. Stolerman	Greenstadt	Google	Authorship verification
L. Fridman	Kam/Weber	MIT	Learning of identity from behavioral biometrics for active authentication...
S. Afroz	Greenstadt	Berkeley	Deception in authorship attribution
M. Brennan	Greenstadt	Ford Found.	Managing quality, identity & adversaries in public discourse with machine...

Drexel faculty are actively engaged with the **cybersecurity research community**; examples include:

M. Stamm	General Chair	2017 ACM Workshop on Information Hiding and Multimedia Security
C. Yang	General Chair	2015 IEEE ICDM Workshop on Intelligence and Security Informatics
R. Greenstadt	General Chair	2015 Privacy Enhancing Technologies Symposium
C. Yang	Associate Editor-In-Chief	Springer Security Informatics
R. D'Ovidio	Member	Intl. Association of Chiefs of Police, Computer Crime and Digital Evidence Committee

Drexel offers a full suite of **cybersecurity-related academic degree programs**, including:

Masters of Science in Cybersecurity	Bachelor of Science in Computing and Security Technology
BS in Computer Science – Computer Security Concentration	Certificate in Computing and Security Technology

Contact us for more information – whether you are a company, government agency, potential student, or just curious.



Steven Weber, Ph.D. – Director (Professor in the College of Engineering)

Email: sweber@coe.drexel.edu

Phone: (215) 895-0254

Office: Bossone Research Enterprise Center, 413b
3126 Market St., Philadelphia, PA 19104



Murugan Anadarajan (LeBow)



Kapil Dandekar (CoE)



Rob D'Ovidio (CoAS)



David Gefen (LeBow)



Christopher Geib (CCI)



Rachel Greenstadt (CCI)



Naga Kandasamy (CoE)



Constantine Katsinis (CCI)



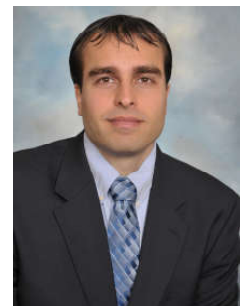
Geoffrey Mainland (CCI)



Spiros Mancoridis (CCI)



Gaurav Naik (CCI)



Ioannis Savidis (CoE)



Harish Sethu (CoE)



James Shackelford (CoE)



Matthew Stamm (CoE)



Baris Taskin (CoE)



Kristene Unsworth (CCI)



Steven Weber (CoE)



Chris Yang (CCI)