George Corser

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Curriculum Vitae (CV)

Education

July 2011 to present	**Oakland University**, Rochester, Michigan PHD candidate—Computer Science and Informatics, ABD—all but dissertation *Dissertation defense scheduled for November 6, 2015*
August 2011	**University of Michigan–Flint**, Flint, Michigan MS, Computer and Information Science (CAIS) *King-Chavez-Parks Future Faculty Fellowship 2009-10*
June 1985	**Princeton University**, Princeton, New Jersey BSE, Civil Engineering

Technical Skills

C++, HTML/CSS/JavaScript/jQuery, PHP/MySQL, CodeIgniter, Laravel, Angular, Android

Experience

Jul 2014 to Present   **Saginaw Valley State University** (SVSU), University Center, Michigan
ASSISTANT PROFESSOR , COMPUTER SCIENCE AND INFORMATION SYSTEMS (CSIS)

Teaching: *Taught eight sections of three computer programming courses* (32 credits) in 2014-2015. Received average student evaluation rating of 1.7/5.0 rating and 3.9 RateMyProfessors rating. Courses: CIS-255, Client Side Web Development (taught twice), CIS-355, Server Side Web Development (taught three times), CS-116, Introduction to Programming in C++ (taught three times). Now teaching CS-403, Mobile App Development (Android) and CS-461, Theory of Computation. CIS-255 and CIS-355 required complete overhaul and preparation of new course material, as did CS-403 and CS-461. Also taught CS-290 and CS-390, Independent study, which led to two symposium presentations and one paper submission to an IEEE conference. *Won one teaching grant*, a Dow Professor Award ($5000) for collaborative computer science education. Served as one of four faculty advisers of interdisciplinary teaching project, **Cardinal Solutions**, which develops internet marketing solutions for real customers, working with students from Art, Business, CSIS, and Writing.

Research: *Wrote nine papers* in 2014-2015, three of which were journal papers, five of which were as first author. *Won two research grants*, a Faculty-led Undergraduate Research grant ($1000) for a *paper accepted at IEEE conference*, ICNC 2016, and a Faculty Research/Growth grant ($3200) for VANET privacy studies. Led 2 undergraduate students in summer program, NSF Research Experience for Undergraduates (REU) at Oakland University.

Service: Organized **TEDxSVSU**, TED talks at SVSU. Managed fifty student and faculty volunteers. Secured the license from TED and *won a service grant* ($5500) from SVSU Foundation Research Grant Program to fund the project. Served as faculty adviser of two registered student organizations (RSOs), **TEDxSVSU** and **Cardinal Bitcoiners**.

Experience (continued)

Jul 2011   **Oakland University** (OU), Rochester, Michigan
to May 2014   TEACHING ASSISTANT AND INSTRUCTOR (while full time PhD student)

Teaching: Taught two courses and assisted in six others. Taught one full undergraduate computer science course, CIT 448, Information Security Practice, as Instructor. Received 90% student approval rating and 5.0 RateMyProfessors rating. Taught, as Instructor, CRJ 341, Cybercrime, offered by Criminal Justice department. Lectured occasionally in, CIT 247, Introduction to Computer Networks, CSE 681, Information Security, and CSE 647, Advanced Computer Networks. Created YouTube channel, OaklandCSE, for computer science education. Channel has 100+ videos, 200+ subscribers and 50,000+ views.

Jun 2011   **ITT Tech**, Troy, Michigan
to Aug 2012   ADJUNCT INSTRUCTOR (part time, concurrent with Oakland University)
              Taught seven undergraduate level computer science courses as Instructor. Received outstanding student evaluations.

Sep 2009   **University of Michigan–Flint**, Flint, Michigan
to Dec 2010   GSRA – Graduate Student Research Assistant (part time)
              Researched and reported academic advancements in the field of computer ethics.

              ***** Selected positions prior to 2009 career change. *****

2006-2008   Aspen Search Group, Warren Michigan
              MANAGING DIRECTOR (Hands-on Recruiter-Manager)
              Managed internal staff of five, external consultants of up to thirty.

2002-2005   Engineer Korea, Seoul, South Korea
              MANAGING DIRECTOR (Consulting Services Business Development Manager)
              Marketed and sold services to international clients with operations in South Korea.

1998-2002   Corser Smith LLC, Troy, Michigan
              MANAGING DIRECTOR (Hands-on Recruiter-Manager and Business Owner-Operator)
              Managed internal staff of up to eight, external consultants up to twelve.

1996-1998   Robert Half International and Bartech Group, Troy, Michigan
              DIVISION DIRECTOR (Hands-on Recruiter-Manager)
              Managed a $1 million budget and staff of up to 9 at Robert Half. Managed an $8 million dollar budget and a staff of up to 66 at Bartech.

1988-1996   Source EDP, Southfield, MI (Overlaps positions above)
              DIRECTOR (Technical Recruiter)

1985-1988   Accenture, New York, New York
              CONSULTANT (Computer Systems Analyst, COBOL Programmer)

Research Interests

Vehicular ad-hoc network (VANET) privacy and security, collaborative computer science education

PhD Dissertation Topic

Securing Location Privacy in Vehicular Applications and Communications

Publications

Journal publications in bold

2015

Corser, G. (2015, pending defense: 11/06/2015). Securing Location Privacy in Vehicular Applications and Communications (Doctoral Dissertation).

Corser, G., Fu, H., Banihani, A., Evaluating Location Privacy in Vehicular Communications and Applications, IEEE Transactions on Intelligent Transportation Systems. Accepted, pending minor revisions, October 2015. <u>Impact Factor: 3.0.</u>

Corser, G., A. Arenas, Fu, H., Effect on Vehicle Safety from Nonexistent or Silenced Basic Safety Messages, IEEE ICNC. Accepted October 2015.

Corser, G., Masasabi, M., Kivari, L., Fu, H., Properties of Vehicle Network Privacy. Michigan Academician. Accepted June 2015.

Gurary, J., Alnahash, N., Corser, G., Ouloch, J., Fu, H., MAPS: A Multi-Dimensional Password Scheme for Mobile Authentication, ACM International Conference on Interactive Tabletops and Surfaces (ITS) 2015. Accepted September 2015.

2014

Corser, G., Fu, H., Shu, T. D'Errico, P., Ma, W., Leng, S., Zhu, Y. (2014, June). Privacy-by-Decoy: Protecting Location Privacy Against Collusion and Deanonymization in Vehicular Location Based Services. In 2014 IEEE Intelligent Vehicles Symposium. Dearborn, MI.

Alrajei, N., Corser, G., Fu, H., Zhu, Y. (2014, February). Energy Prediction Based Intrusion Detection In Wireless Sensor Networks. International Journal of Emerging Technology and Advanced Engineering, Volume 4, Issue 2. IJETAE.

Alnahash, N., Corser, G., Fu, H. (2014, April). Protecting Vehicle Privacy using Dummy Events. In 2014 American Society For Engineering Education North Central Section Conference. ASEE NCS 2014.

Oluoch, J., Corser, G., Fu, H., Zhu, Y. (2014, April). Simulation Evaluation of Existing Trust Models in Vehicular Ad Hoc Networks. In 2014 American Society For Engineering Education North Central Section Conference. ASEE NCS 2014.

2013

Corser, G., Fu, H., Shu, T. D'Errico, P., Ma, W. (2013, December). Endpoint Protection Zone (EPZ): Protecting LBS User Location Privacy Against Deanonymization and Collusion in Vehicular Networks. In Second International Conference on Connected Vehicles & Expo. IEEE. Las Vegas, NV.

Corser, G., Arslanturk, S., Oluoch, J., Fu, H., & Corser, G. E. (2013). Knowing the enemy at the gates: measuring attacker motivation. International Journal of Interdisciplinary Telecommunications and Networking 5(2), 83-95. IJITN.

Publications (continued)

2012

Corser, G. (2012, October). A tale of two CTs: IP packets rejected by a firewall. In Proceedings of the 2012 Information Security Curriculum Development Conference (pp. 16-20). ACM. InfoSecCD 2012, Kennesaw, GA. Best Paper Runner-up Award.

Corser, G. (2012, October). Professional association membership of computer and information security professionals. In Proceedings of the 2012 Information Security Curriculum Development Conference (pp. 9-15). ACM. InfoSecCD 2012, Kennesaw, GA. Best Student Paper Runner-up Award.

Corser, G., Entropy as an Estimate of Image Steganography. Accepted, but never paid fee for publication, CAINE 2012.

Associations

1. Organizer, Faculty Adviser, TEDxSVSU (www.tedxsvsu.com), SVSU Foundation Resource Grant, $5500, awarded 11/21/2014
2. Principal Investigator, Collaborative Computer Science Education (CCSE), Dow Professor Award, $5000, awarded 5/19/2015
3. Coordinator, SVSU-SET Classroom Technology Working Group (CTWG)
4. Secretary, Board of Directors, Early Career Academy (www.earlycareeracademy.com)
5. Faculty Adviser, Cardinal Bitcoiners (www.cardinalbitcoiners.com)
6. Faculty Adviser, Cardinal Solutions (www.svsucardinalsolutions.org)
7. Participant, Dow Corning Fellows
8. Participant, Hour of Code (www.hourofcode.com) with ACM@SVSU and STEM@SVSU
9. Member, ACM, Association of Computing Machinery (www.acm.org)
10. Member, IEEE (www.ieee.org)
11. Member, IEEE Computer Society (www.computer.org)
12. Member, IEEE Intelligent Transportation Systems Society (its.ieee.org)
13. Member, IEEE Internet of Things Community (iot.ieee.org)
14. Member, IEEE Vehicular Technology Society (www.vtsociety.org)
15. Member, Michigan Infragard (www.michiganinfragard.org)
16. Member, SAE, Society of Automotive Engineers (www.sae.org and www.midmichigansae.org)

Awards

- *2015 - Herbert H and Grace Dow Professor Award*
- *2012 – Best Paper Runner-up Award, InfoSecCD*
- *2012 – Best Student Paper Runner-up Award, InfoSecCD*
- *2009 - King-Chavez-Parks Future Faculty Fellowship*