

George Corser, PhD

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EDUCATION

PHD, Computer Science and Informatics, [Oakland University](#), Rochester, Michigan, 12/2015

MS, Computer Science and Information Systems, [University of Michigan - Flint](#), Flint, Michigan, 8/2011

BSE, Civil Engineering and Operations Research, [Princeton University](#), Princeton, New Jersey, 6/1985

EXPERIENCE

ASSISTANT PROFESSOR, Computer Science and Information Systems

[Saginaw Valley State University \(SVSU\)](#), University Center, Michigan, **7/2014 to present**

SVSU is Michigan's youngest public university, with ~9,000 undergraduate and ~1,000 graduate students

- **Teaching:** Teaches **mobile/web, cybersecurity, and computer programming** courses. Carries a 3/3 +2 teaching load, 3 fall, 3 winter, +2 online spring/summer courses: 32 credits/year, 8 four-credit courses. Teaches HTML, CSS, JavaScript, jQuery, Bootstrap, AngularJS, Android, Java, PHP/MySQL, CodeIgniter, C++, Metasploit, Wireshark. Maintains 4.2 overall rating at [RateMyProfessors.com](#), as of 10/5/2017. See also: [Faculty Profile](#), [Current Teaching Schedule](#), [Teaching Statement](#).
- **Research:** Publishes well-cited research in high-impact-factor venues. Topics: **Internet of Things (IoT), vehicular ad-hoc network (VANET) security, and location privacy**. In first three academic years, published 6 scholarly works as lead author, including an award-nominated dissertation, a journal paper for *IEEE Transactions on Intelligent Transportation Systems*, and a white paper for IEEE Internet Initiative. **Mentors future researchers**. Published 3 papers with undergraduate co-authors. Reviewed proposals, dissertations, and coached presentations of three PhD candidates, who all passed. Serves on doctoral advisory committees of 4 PhD students at nearby Oakland University. **Produces research software**. Led undergraduates to develop web-based research software, [VisuTrace](#), and led NSF REU teams to develop VANET privacy analysis software. See also: [Google Scholar](#), [IEEE.org](#), [Research Statement](#).
- **Service:** Leads local groups of nationally recognized outreach and enrichment initiatives. Organized TED talks (TEDxSVSU). Coordinated Hour of Code events. Led development of FIRST Robotics volunteer website. Promotes campus diversity and security, as Inclusion Advocate and Campus Security Authority. See also: [Diversity Statement](#).
- **Invited Talks:** Presents technical talks to national and international audiences: "[IoT Security Best Practices](#)" IEEE Webinar, to international researchers and industry practitioners, 2017. "[Properties of Vehicle Network Privacy](#)" to policy makers, researchers, and industry practitioners at *IEEE End to End Trust and Security Workshop for the Internet of Things* in Washington, D.C., 2016. "[Threats in Vehicle-to-vehicle \(V2V\) Communication](#)," to hackers, at Bsides Detroit, 2014.
- **Grants:** Writes winning grant proposals. Won four grants as Principal Investigator (PI): *SVSU Foundation Resource Grant*, TEDxSVSU, \$5500; *SVSU Undergraduate Research Program Grant*, Safety-Silence Tradeoff Equation, \$1000; *SVSU Faculty Research Grant*, VANET Privacy, \$3260; *Herbert H and Grace Dow Professor Award*, Collaborative Computer Science Education, \$5000. Wrote winning grant proposal from State of Michigan Department of Education for Early Career Academy, \$141,800.

PRIOR TEACHING EXPERIENCE

INSTRUCTOR (Part Time), Computer Science and Engineering, and Criminal Justice departments [Oakland University](#), Rochester, Michigan, Fall, 2012, and Winter, 2014
Concurrent with PhD studies. Official title was Teaching Assistant, but taught as sole teacher.

- Achieved perfect 5.0 rating at [RateMyProfessors.com](#).

INSTRUCTOR (Part Time), Information Technology [ITT Technical Institute](#), Troy, Michigan, Summer, 2011, to Winter, 2014

PRIOR BUSINESS EXPERIENCE

Managed information technology (IT), engineering and accounting recruiting agencies. Managed staffs of up to 66, budgets of up to \$7MM. From 1985 to 1988: coded COBOL programs, mostly for the US Naval Air Force. From 1988 to 2009: recruited IT professionals, managers and executives, first as recruiter, later as hands-on manager of recruiting agencies in USA and South Korea. Representative positions:

RECRUITING MANAGER, Aspen Search Group, Division of Michigan Staffing, Warren, MI, 2008.
Managed a staff of 4.

MANAGING DIRECTOR, International Recruiting, EngineerKorea, Seoul, South Korea, 2005.
Co-founded this South Korean recruiting agency.

MANAGING DIRECTOR, Technology Talent Acquisition, Corser Smith LLC, Troy, MI, 1998-2002.
Managed staff of 6 internal, 18 external professionals.

COURSES TAUGHT

[Saginaw Valley State University \(SVSU\)](#), University Center, Michigan, 7/2014 to present

- CIS-255: Client Side Web App Development
- CIS-355: Server Side Web App Development
- CS-116: Computer Programming I
- CS-160: Microcomputer Software
- CS-232: Cybersecurity System Administration (started fall 2017)
- CS-233: Cybercrime, Technology and Countermeasures (starting winter 2018)
- CS-403: Mobile App Development
- CS-461: Theory of Computation

[Oakland University](#), Rochester, Michigan, Fall, 2012, and Winter, 2014

- CIS-448: Information Security Practice
- CRJ-341: Cybercrime

[ITT Technical Institute](#), Troy, Michigan, Summer, 2011, to Winter, 2014

- CS-111: Client Side Web Scripting
- CS-140: Business Concepts for Application Developers
- CS-250: Open Source Programming
- CS-280: Web Security and Ethics
- IT-104: Introduction to Programming
- IT-219: Programming in Java II

PUBLICATIONS

17. Bassous, R., Mansour, A., Bassous, R., Fu, H., Zhu, Y. and **Corser, G.** (2017). Ambiguous Multi-Symmetric Scheme and Applications. *Journal of Information Security*. [doi:10.4236/jis.2017.84024](https://doi.org/10.4236/jis.2017.84024)
16. **Corser, G.**, Masasabi, M., Kivari, L., Fu, H. (2017). Properties of vehicle network privacy. *Michigan Academician*, Vol. 44, No. 3, pp287-303. [doi:10.7245/0026-2005-44.3.287](https://doi.org/10.7245/0026-2005-44.3.287).
15. **Corser, G.** (2017, August). Why IoT security is so important - and what to do about it. *IoT Tech News*. 4 August 2017. [Web](#). IEEE.
14. **Corser, G.**, Banihani, A., Cox, J., Hoque, R., Fu, H. (2017, July). Location privacy, application overhead and congestion in VANET location based services. In 2017 IEEE 3rd International Conference on Big Data Security on Cloud (BigDataSecurity), IEEE International Conference on High Performance and Smart Computing, (HPSC) and IEEE International Conference on Intelligent Data and Security (IDS), Beijing, China, 2017, pp. 243-248. IEEE. [doi:10.1109/BigDataSecurity.2017.52](https://doi.org/10.1109/BigDataSecurity.2017.52) (PDF)
13. **Corser, G.**, Fink, G., Aledhari, M., Bielby, J., Nighot, R., Mandal, S., Aneja, N., Hrivnak, C., and Cristache, L. (2017). Internet of Things (IoT) security best practices [White paper]. Retrieved May 19, 2017, from IEEE Internet Initiative: http://internetinitiative.ieee.org/images/files/resources/white_papers/internet_of_things_feb2017.pdf
12. **Corser, G.** (2016). Securing location privacy in vehicular applications and communications (**Doctoral dissertation**, Oakland University). (PDF) (**Nominated for Outstanding Dissertation Award**)
11. **Corser, G.**, Fu, H., and Banihani, A. (2016). Evaluating location privacy in vehicular communications and applications. *IEEE Transactions on Intelligent Transportation Systems*, 17(9), 2658-2667. [doi:10.1109/TITS.2015.2506579](https://doi.org/10.1109/TITS.2015.2506579) (**Nominated for 2016 Caspar Bowden PET Award.**) (PDF)
10. **Corser, G.**, Arenas, A., and Fu, H. (2016, February). Effect on vehicle safety of nonexistent or silenced basic safety messages. In Computing, Networking and Communications (ICNC), 2016 International Conference on (pp. 1-5). IEEE. [doi:10.1109/ICCNC.2016.7440550](https://doi.org/10.1109/ICCNC.2016.7440550)
9. Gurary, J., Zhu, Y., **Corser, G.**, Oluoch, J., Alnhash, N., and Fu, H. (2015, November). Maps: A multi-dimensional password scheme for mobile authentication. In Proceedings of the 2015 International Conference on Interactive Tabletops & Surfaces (pp. 409-412). ACM. [doi:10.1145/2817721.2823479](https://doi.org/10.1145/2817721.2823479)
8. **Corser, G.**, Fu, H., Shu, T., D'Errico, P., Ma, W., Leng, S., and Zhu, Y. (2014, June). Privacy-by-Decoy: Protecting location privacy against collusion and deanonymization in vehicular location based services. In Intelligent Vehicles Symposium Proceedings, 2014 IEEE (pp. 1030-1036). IEEE. [doi:10.1109/IVS.2014.6856595](https://doi.org/10.1109/IVS.2014.6856595)
7. Alnhash, 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. (PDF)
6. 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. (PDF)
5. Alrajai, 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. (PDF)
4. **Corser, G.**, Fu, H., Shu, T., D'Errico, P and Ma, W. (2013, December). Endpoint protection zone (EPZ): Protecting LBS user location privacy against deanonymization and collusion in vehicular networks. In Connected Vehicles and Expo (ICCVE), 2013 International Conference on (pp. 369-374). IEEE. [doi:10.1109/ICCVE.2013.6799822](https://doi.org/10.1109/ICCVE.2013.6799822)
3. **Corser, G.**, Arslanturk, S., Oluoch, J., Fu, H., and Corser, G. E. (2013). Knowing the Enemy at the Gates: Measuring Attacker Motivation. In *International Journal of Interdisciplinary Telecommunications and Networking (IJITN)*, 5(2), 83-95. [doi:10.4018/JITN.2013040107](https://doi.org/10.4018/JITN.2013040107)
2. **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. [doi:10.1145/2390317.2390320](https://doi.org/10.1145/2390317.2390320) (**Best Paper Runner Up Award**)
1. **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. [doi:10.1145/2390317.2390319](https://doi.org/10.1145/2390317.2390319) (**Best Student Paper Runner Up Award**)

SPECIAL CONFERENCES

- [Travel grant](#), I Annotate. (May 2017), sponsored by [Hypothes.is](#), funded by SVSU College of Science, Engineering & Technology
- [Invited speaker](#), IEEE End to End Trust and Security Workshop for the Internet of Things in Washington, DC (February 2016), funded by IEEE
- [Invited researcher](#), Intel Corporation Automotive Security Review Board (ASRB) meetup at Automotive Cyber Security Summit in San Francisco (October 2015), funded by Intel Corporation
- [Travel grant](#), [NSF/DIMACS Workshop for Aspiring PIs in Secure and Trustworthy Cyberspace](#) (August 2014), funded by NSF

SERVICE ACTIVITIES

- Organizer, TEDxSVSU (www.tedxsvsu.com), TED Talks, 2015, 2016
- Campus Security Authority (CSA), SVSU, 2017-present
- Inclusion Advocate, SVSU, 2016-present
- Faculty Fellow, Dow Corning Foundation/SVSU STEM Community Partnership, 2015-present
- Faculty Adviser, CardinalCon.Com, Major League Hacking (MLH) Hack Day Event, 12/2/2017
- Faculty Adviser, Google IgniteCS, 2016-present
- Faculty Adviser, Cryptocurrency and Blockchain Technology Research Group, 2017-present
- Faculty Adviser, Cardinal Bitcoiners, 2015
- Faculty Adviser, Cardinal Solutions, 2015-present (www.svsucardinalsolutions.org)
- Volunteer, Hour of Code (www.hourofcode.com), with STEM@SVSU and ACM@SVSU
- Website developer, Cardinal Volunteer, FIRST Robotics Event, April 2017 (www.cardinalvolunteer.com)
- Board Secretary, Early Career Academy Charter HS, 2014-2017

AFFILIATIONS

- Member, ACM, Association of Computing Machinery (www.acm.org)
- Member, IEEE (www.ieee.org); Member, IEEE Computer Society (www.computer.org); Member, IEEE Intelligent Transportation Systems Society (its.ieee.org); Member, IEEE Internet of Things Community (iot.ieee.org); Member, IEEE Vehicular Technology Society (www.vtsociety.org)
- Member, Michigan Infragard (www.michiganinfragard.org)
- Member, SAE, Society of Automotive Engineers (www.sae.org and www.midmichigansae.org)

AWARDS AND HONORS

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

PERSONAL

- Lost 64 pounds in 6 months (4/28/2017 - 10/10/2017)
- Shot 44 on 9 holes of golf, East Course, [Twin Oaks Golf Club](#), Freeland, MI (10/19/2017). Shot 45 on 9 holes, Front Nine, [Cherry Creek Golf Club](#), Shelby Township, MI (10/28/2017). Just recently started breaking 100 regularly, though definitely not always. And yes, that's 100 on 18 holes!

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