Greg Banks

Contact Information

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Education

Ph.D. (in progress)	2005-present. Computer Science, University of California, Santa Barbara.
B.S.	2004. Computer Science, University of California, Santa Barbara.

Interests

My current interests, and work, are in automated malware collection and its classification. More specifically I am interested in using the behavioral aspects of spyware as a detection mechanism and applying this detection mechanism to a large set of software currently on the web in an automated fashion.

Work Experience

Auspex Systems	Summer intern in 2001 and 2002 for the test and quality assurance team. • Test development for the ns2000 series of file servers. • Developed several tools to help organize testbed usage and development.
CallWave	Summer intern in 2004 for the telephony team. • Integrated the open source speex voice codec into the main product line.

Research Experience

2005-present	Ph.D. student and Research Assistant in the Security Lab at the University of California at Santa Barbara under the direction of Giovanni Vigna. Research on malware detection and classification.

Publications

1. M. Cova, V. Felmetsger, G. Banks, and G. Vigna, Static Detection of Vulnerabilities in x86 Executables, in Proceedings of the Annual Computer Security Applications Conference (ACSAC), Miami, Florida, December 2006.

2. E. Kirda, C. Kruegel, G. Banks, G. Vigna, and R. Kemmerer, Behavior-based Spyware Detection, in Proceedings of the USENIX Security Symposium, Vancouver, Canada, August 2006.

3. G. Banks, M. Cova, V. Felmetsger, K. C. Almeroth, R. A. Kemmerer, and G. Vigna. Snooze: Toward a stateful network protocol fuzzer. In S. K. Katsikas, J. Lopez, M. Backes, S. Gritzalis, and B. Preneel, editors, ISC, volume 4176 of Lecture Notes in Computer Science, pages 343358. Springer, 2006.