

Urs Hengartner

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Research Interests

My research interests are in information privacy and in computer and networks security. My current research goals are to increase the security of emerging computing environments, such as location-based services, mobile social networking, and electronic voting, and to design privacy-enhancing technologies for people who want to benefit from these environments.

Education

Ph.D. in Computer Science, Carnegie Mellon University, August 2005.

Thesis: Access Control to Information in Pervasive Computing Environments

Advisor: Peter Steenkiste

M.S. in Computer Science, Carnegie Mellon University, Fall 2003.

Dipl. Informatik-Ing. ETH, ETH Zürich, August 1997.

Thesis: End-to-End Congestion Control

Supervisor: Thomas Gross

Publications

Journals

Richard Thompson Ainsworth and Urs Hengartner, “Quebec’s Module d’Enregistrement des Vents (MEV): Fighting the Zapper, Phantomware and Tax Fraud with Technology”. *Canadian Tax Journal*, 57(4), December 2009, pp. 715–761.

Urs Hengartner and Peter Steenkiste, “Avoiding Privacy Violations Caused by Context-Sensitive Services”. *Pervasive and Mobile Computing*, PerCom 2006 special issue, 2(4), November 2006, pp. 427–452.

Urs Hengartner and Peter Steenkiste, “Exploiting Information Relationships for Access Control in Pervasive Computing”. *Pervasive and Mobile Computing*, 2(3), September 2006, pp. 344–367.

Urs Hengartner and Peter Steenkiste, “Access Control to People Location Information”. *ACM Transactions on Information and System Security (TISSEC)*, 8(4), November 2005, pp. 424–456.

Refereed Conferences/Workshops

Aleksander Essex and Urs Hengartner, “Oblivious Printing of Secret Messages in a Multi-party Setting”. To appear in *Proc. of 16th Conference on Financial Cryptography and Data Security (FC 2012)*, Bonaire, February/March 2012.

Sarah Pidcock, Rob Smits, Urs Hengartner, and Ian Goldberg, “NotiSense: An Urban Sensing Notification System To Improve Bystander Privacy”. *2nd International Workshop on Sensing Applications on Mobile Phones (PhoneSense 2011)*, Seattle, WA, November 2011.

Rob Smits, Sarah Pidcock, Divam Jain, Ian Goldberg, and Urs Hengartner, “BridgeSPA: Improving Tor Bridges with Single Packet Authorization”. *Proc. of 10th Workshop on Privacy in the Electronic Society (WPES 2011)*, Chicago, IL, October 2011, pp. 93–101.

Aleksander Essex, Christian Henrich, and Urs Hengartner, “Single Layer Optical-scan Voting with Fully Distributed Trust”. *Proc. of 3rd International Conference on E-voting and Identity (VoteID 2011)*, Tallinn, Estonia, September 2011.

Prima Chairunnanda, Nam Pham, and Urs Hengartner, “Privacy: Gone with the Typing! Identifying Web Users by Their Typing Pattern”. *4th Hot Topics in Privacy Enhancing Technologies (HotPETs 2011)*, Waterloo, ON, July 2011.

Qi Xie and Urs Hengartner, “Privacy-Preserving Matchmaking for Mobile Social Networking Secure Against Malicious Users”. *Proc. of 9th Annual Conference on Privacy, Security and Trust (PST2011)*, Montreal, QC, July 2011, pp. 252–259.

Jeremy Clark and Urs Hengartner, “Selections: An Internet Voting System with Over-the-Shoulder Coercion-Resistance”. *Proc. of 15th Conference on Financial Cryptography and Data Security (FC 2011)*, St. Lucia, February/March 2011.

Wanying Luo and Urs Hengartner, “VeriPlace: A Privacy-Aware Location Proof Architecture”. *Proc. of 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS 2010)*, San Jose, CA, November 2010, pp. 23–32.

Aleksander Essex, Jeremy Clark, Urs Hengartner, and Carlisle Adams, “Eperio: Mitigating Technical Complexity in Cryptographic Election Verification”. *2010 Electronic Voting Technology Workshop/Workshop on Trustworthy Elections (EVT/WOTE '10)*, Washington, DC, August 2010.

Jeremy Clark and Urs Hengartner, “On the Use of Financial Data as a Random Beacon”. *2010 Electronic Voting Technology Workshop/Workshop on Trustworthy Elections (EVT/WOTE '10)*, Washington, DC, August 2010.

Femi Olumofin, Piotr K. Tysowski, Ian Goldberg, and Urs Hengartner, “Achieving Efficient Query Privacy for Location Based Services”. *Proc. of 10th Privacy Enhancing Technologies Symposium (PETS 2010)*, Berlin, Germany, July 2010.

Wanying Luo and Urs Hengartner, “Proving Your Location Without Giving up Your Privacy”. *Proc. of 11th Workshop on Mobile Computing Systems and Applications (HotMobile 2010)*, Annapolis, MD, February 2010, pp. 7–12.

Jeremy Clark, Urs Hengartner, and Kate Larson, “Not-So Hidden Information: Optimal Contracts for Undue Influence in E2E Voting”. *Proc. of 2nd International Conference on E-voting and Identity (Vote-ID 2009)*, Luxembourg, September 2009, pp. 1–17.

Wanying Luo, Qi Xie, and Urs Hengartner, “FaceCloak: An Architecture for User Privacy on Social Networking Sites”. *Proc. of 2009 IEEE International Conference on Privacy, Security, Risk and Trust (PASSAT-09)*,

Vancouver, BC, August 2009, pp. 26–33.

Aleks Essex, Jeremy Clark, Urs Hengartner, and Carlisle Adams, “How to Print a Secret”. *Proc. of 4th USENIX Workshop on Hot Topics in Security (HotSec 2009)*, Montreal, QC, August 2009.

Ge Zhong and Urs Hengartner, “A Distributed k -Anonymity Protocol for Location Privacy”. *Proc. of 7th IEEE International Conference on Pervasive Computing and Communication (PerCom 2009)*, Galveston, TX, March 2009, pp. 253–262.

Ge Zhong and Urs Hengartner, “Toward a Distributed k -Anonymity Protocol for Location Privacy”. *Proc. of 7th Workshop on Privacy in the Electronic Society (WPES 2008)*, Alexandria, VA, October 2008, pp. 33–37.

Urs Hengartner, “Location Privacy based on Trusted Computing and Secure Logging”. *Proc. of 4th International Conference on Security and Privacy in Communication Networks (SecureComm 2008)*, Istanbul, Turkey, September 2008.

Sumair Ur Rahman, Urs Hengartner, Usman Ismail, and S. Keshav, “Practical Security for Rural Internet Kiosks”. *Proc. of 2nd ACM SIGCOMM Workshop on Networked Systems for Developing Regions (NSDR 2008)*, Seattle, WA, August 2008, pp. 13–18.

Jeremy Clark and Urs Hengartner, “Panic Passwords: Authenticating under Duress”. *Proc. of 3rd USENIX Workshop on Hot Topics in Security (HotSec 2008)*, San Jose, CA, July 2008.

Aniket Kate, Greg Zaverucha, and Urs Hengartner, “Anonymity and Security in Delay Tolerant Networks”, *Proc. of 3rd International Conference on Security and Privacy in Communication Networks (SecureComm 2007)*, Nice, France, September 2007.

Sumair Ur Rahman and Urs Hengartner, “Secure Crash Reporting in Vehicular Ad hoc Networks”. *Proc. of 3rd International Conference on Security and Privacy in Communication Networks (SecureComm 2007)*, Nice, France, September 2007.

Allan Caine and Urs Hengartner, “The AI Hardness of CAPTCHAs does not imply Robust Network Security”. *Proc. of Joint iTrust and PST Conferences on Privacy, Trust Management and Security (IFIPTM 2007)*, Moncton, NB, July/August 2007, pp. 367–382.

Ge Zhong, Ian Goldberg, and Urs Hengartner, “Louis, Lester and Pierre: Three Protocols for Location Privacy”. *Proc. of 7th Privacy Enhancing Technologies Symposium (PETS 2007)*, Ottawa, ON, June 2007, pp. 62–76.

Urs Hengartner, “Hiding Location Information from Location-Based Services”. *Proc. of International Workshop on Privacy-Aware Location-based Mobile Services (PALMS)*, Mannheim, Germany, May 2007, pp. 268–272.

Urs Hengartner and Ge Zhong, “Distributed, Uncertainty-Aware Access Control for Pervasive Computing”. *Proc. of 4th IEEE International Workshop on Pervasive Computing and Communication Security (PerSec 2007)*, White Plains, NY, March 2007, pp. 241–246.

Urs Hengartner and Peter Steenkiste, “Securing Information Gateways with Derivation-Constrained Access Control”. *Proc. of 3rd International Conference on Security in Pervasive Computing (SPC 2006)*, York, England, April 2006, pp. 181–195.

Urs Hengartner and Peter Steenkiste, “Avoiding Privacy Violations Caused by Context-Sensitive Services”. *Proc. of 4th IEEE International Conference on Pervasive Computing and Communications (PerCom 2006)*, Pisa, Italy, March 2006, pp. 222–231.

Urs Hengartner and Peter Steenkiste, “Exploiting Hierarchical Identity-Based Encryption for Access Control to Pervasive Computing Information”. *Proc. of 1st IEEE/CreateNet International Conference on Security and Privacy for Emerging Areas in Communication Networks (SecureComm 2005)*, Athens, Greece, September 2005, pp. 384–393.

Urs Hengartner and Peter Steenkiste, “Exploiting Information Relationships for Access Control”. *Proc. of 3rd IEEE International Conference on Pervasive Computing and Communications (PerCom 2005)*, Kauai Island, HI, March 2005, pp. 269–278.

Urs Hengartner and Peter Steenkiste, “Implementing Access Control to People Location Information”. *Proc. of 9th Symposium on Access Control Models and Technologies (SACMAT 2004)*, Yorktown Heights, NY, June 2004, pp. 11–20.

Nancy Miller, Glenn Judd, Urs Hengartner, Fabien Gandon, Peter Steenkiste, I-Heng Meng, Ming-Whei Feng, and Norman Sadeh, “Context-aware Computing Using a Shared Contextual Information Service”. *Proc. of Pervasive 2004 Hot Spots*, Vienna, Austria, April 2004.

Urs Hengartner and Peter Steenkiste, “Access Control to Information in Pervasive Computing Environments”. *Proc. of 9th Workshop on Hot Topics in Operating Systems (HotOS IX)*, Lihue, HI, May 2003, pp. 157–162.

Urs Hengartner and Peter Steenkiste, “Protecting Access to People Location Information”. *Proc. of 1st International Conference on Security in Pervasive Computing (SPC 2003)*, Boppard, Germany, March 2003, pp. 25–38.

Urs Hengartner, Sue Moon, Richard Mortier, and Christophe Diot, “Detection and Analysis of Routing Loops in Packet Traces” (Short Paper). *Proc. of 2nd Internet Measurement Workshop (IMW 2002)*, Marseille, France, November 2002, pp. 107–112.

Urs Hengartner and Peter Steenkiste, “Protecting People Location Information” (Extended Abstract). *Proc. of Workshop on Security in Ubiquitous Computing*, Göteborg, Sweden, September 2002.

Andy Myers, John Chuang, Urs Hengartner, Yinglian Xie, Weiqiang Zhuang, and Hui Zhang, “A Secure, Publisher-Centric Web Caching Infrastructure”. *Proc. of IEEE Infocom 2001*, Anchorage, AK, April 2001, pp. 1235–1243.

Urs Hengartner, Jürg Bolliger, and Thomas Gross, “TCP Vegas Revisited”. *Proc. of IEEE Infocom 2000*, Tel Aviv, Israel, March 2000, pp. 1546–1555.

Michael Hemy, Urs Hengartner, Peter Steenkiste, and Thomas Gross, “MPEG System Streams in Best-Effort Networks”. *Proc. of PacketVideo '99*, New York, NY, April 1999.

Jürg Bolliger, Thomas Gross, and Urs Hengartner, “Bandwidth Modelling for Network-Aware Applications”. *Proc. of IEEE Infocom '99*, New York, NY, March 1999, pp. 1300–1309.

Selected Technical Reports

Urs Hengartner, “Access Control to Information in Pervasive Computing Environments”. *Ph.D. Thesis, available as Technical Report CMU-CS-05-160, Computer Science Department, Carnegie Mellon University, August 2005.*

Jürg Bolliger, Urs Hengartner, and Thomas Gross, “The Effectiveness of End-to-End Congestion Control Mechanisms”. *Technical Report #313, Department of Computer Science, ETH Zürich, February 1999.*

Invited Talks and Panels

“VeriPlace: A Privacy-Aware Location Proof Architecture”, *7th Annual Pitney Bowes Conference on Information Security and Communication, Stamford CT, June 2011.*

“FaceCloak: An Architecture for User Privacy on Social Networking Sites “. *Innovation Insights - Information Communication Technologies for Business, Accelerator Centre, Waterloo ON, June 2010.*

“Location Privacy and Emerging Technologies”, *The Office of the Privacy Commissioner of Canada: Geospatial Information, Mobile Marketing and Location Privacy Workshop, Ottawa ON, November 2009.*

“Privacy-Enhancing Technologies for Location-Based Services”, *CASCON 2009: Workshop on Cybersecurity: Security and Privacy in the 21st Century, Markham ON, November 2009.*

“Privacy-Enhancing Technologies for Location-Based Services”, *5th Annual Pitney Bowes Conference on Information Security and Communication, Stamford CT, July 2009.*

“Privacy-Enhancing Technologies for Mobile Applications”, *Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, May 2009.*

“Privacy-Enhancing Technologies for Mobile Applications”, *Google, Waterloo ON, April 2009.*

“Sharing Data in a Privacy-Friendly Way”, *The Canadian Association of Research Ethics Boards (CAREB) Ontario Conference 2008, Waterloo, November 2008.*

“Location Privacy”, *6th International Conference on Mobile Business (ICMB’07), Privacy & Security Panel, Toronto ON, July 2007.*

“Anonymity and Security in Delay Tolerant Networks”, *Lake Ontario Systems and Engineering Research (LOSER) Workshop, Niagara Falls ON, May 2007.*

“Access Control to Information in Pervasive Computing Environments”, *METIS Security Seminar Series, University of Ontario Institute of Technology, Oshawa ON, November 2006.*

“Access Control to Information in Pervasive Computing Environments”, *Cryptography Seminar, Centre for Applied Cryptography, University of Waterloo, Waterloo ON, November 2005.*

“Access Control to Information in Pervasive Computing Environments”, *School of Computer Science, University of Waterloo, Waterloo ON, April 2005.*

“Access Control to Information in Pervasive Computing”, *Workshop on Content and Application Customization for Pervasive Computing, 14th Annual IBM Centers for Advanced Studies Conference (CASCON 2004),*

Markham ON, October 2004.

“Exploiting Information Relationships for Access Control”, *Systems Design and Implementation (SDI) / Laboratory for Computer Systems (LCS) Seminar*, Carnegie Mellon University, Pittsburgh PA, April 2004.

Experience

Research and Technical

July 2010 - Present, Associate Professor, University of Waterloo, Waterloo ON.

September 2005 - June 2010, Assistant Professor, University of Waterloo, Waterloo ON.

August 1999 - August 2005, Graduate Student, Carnegie Mellon University, Pittsburgh PA.

For my thesis research, I examined access control to sensitive information available in future ubiquitous computing environments. Namely, I proposed exploiting relationships between information as a first-class citizen in access control. In addition, I studied ways to avoid information leaks occurring in distributed access-control architectures.

Working for the Aura research project, I explored security issues that arise if people can learn about each other's location. Moreover, I designed, implemented, and evaluated a secure people location system.

Working for the Gemini research project, I participated in the design, implementation, and evaluation of a next-generation Web cache that is able to generate documents on the fly in a secure way.

Summer 2001, Research Intern, Sprint Advanced Technology Laboratories, Burlingame CA.

Working with the IP Group, I analyzed traces of network packets from Sprint's Internet backbone links for routing loops and traffic anomalies, such as denial of service attacks. For facilitating this analysis, I designed and implemented several algorithms.

September 1998 - July 1999, Research Assistant, ETH Zürich, Switzerland.

Working for the Network-Aware Applications research project, I decomposed the newly proposed Internet congestion algorithm TCP Vegas into its parts and analyzed the effect of the individual parts on throughput and retransmission of network packets.

January 1998 - June 1998, Visiting Scholar, Carnegie Mellon University, Pittsburgh PA.

Working with Michael Hemy, I designed and implemented a protocol that selectively drops MPEG video frames according to the experienced degree of network congestion.

October 1997 - December 1997, Part-time Research Assistant, ETH Zürich, Switzerland.

Working for the Network-Aware Applications research project, I implemented several Internet congestion control algorithms in user space and examined their influence on throughput and retransmission of network packets in a large-scale Internet experiment.

November 1996 - March 1997, Research Intern, IT Camp, the Information Technology Laboratory of the UBS Bank, Basel, Switzerland.

I evaluated several audio/video communication tools. In addition, I designed and implemented a video-conferencing plugin for Netscape Navigator.

Teaching

Fall 2011: CS 458/658 - Computer Security and Privacy, University of Waterloo.

Winter 2011: CS 458/658 - Computer Security and Privacy, University of Waterloo.

Fall 2010: CS 858 - Hot Topics in Computer and Communication Systems Security, University of Waterloo.

Fall 2010: CS 458/658 - Computer Security and Privacy, University of Waterloo.

Winter 2010: CS 456/656 - Computer Networks, University of Waterloo.

Fall 2009: CS 454/654 - Distributed Systems, University of Waterloo.

Fall 2009: CS 458/658 - Computer Security and Privacy, University of Waterloo.

Winter 2009: CS 858 - Hot Topics in Computer and Communication Systems Security, University of Waterloo.

Winter 2009: CS 458/658 - Computer Security and Privacy, University of Waterloo.

Fall 2008: CS 454/654 - Distributed Systems, University of Waterloo.

Winter 2008: CS 489/698 - Computer Security and Privacy, University of Waterloo.

Winter 2008: CS 854 - Hot Topics in Computer and Communication Systems Security, University of Waterloo.

Fall 2007: CS 497 - Frontiers in Computer Science, University of Waterloo.

Two lectures about current security and privacy challenges.

Winter 2007: CS 497 - Frontiers in Computer Science, University of Waterloo.

Two lectures about current security and privacy challenges.

Winter 2007: CS 454/654 - Distributed Systems, University of Waterloo.

Fall 2006: CS 854 - Hot Topics in Computer and Communication Systems Security, University of Waterloo.

Winter 2006: CS 456/656 - Computer Networks, University of Waterloo.

Students Supervised

Sarah Harvey (PhD, co-supervised with Charlie Clarke), Fall 2011 - present

Aleks Essex (PhD), Spring 2010 - present

Sarah Pidcock (MMath), Fall 2010 - present

Kevin Henry (PhD Advisory Committee [Doug Stinson]), Fall 2011 - present

Mashaël AlSabah (PhD Advisory Committee [Ian Goldberg]), Spring 2011 - present

Eduardo S. Barrenechea (PhD Advisory Committee [Don Cowan]), Spring 2011 - present

Mehrdad Nojournian (PhD Advisory Committee [Doug Stinson]), Fall 2010 - present

Earl Oliver (PhD Advisory Committee [S. Keshav]), Winter 2009 - present

Rob Smits (MMath Thesis Reader [Ian Goldberg]), Fall 2011

Femi Olumofin (PhD Advisory and Thesis Committee [Ian Goldberg]), Spring 2010 - Spring 2011

Jeremy Clark (PhD), “Democracy Enhancing Technologies: Toward deployable and incoercible E2E elections”, Fall 2007 - Spring 2011

Peter Tysowski (PhD Comprehensive Exam Committee [Anwar Hasan]), Winter 2011

Ryan Henry (MMath Thesis Reader [Ian Goldberg]), Fall 2010

Janna-Lynn Weber (MMath Thesis Reader [Ed Lank & Daniel Berry]), Spring 2010

Qi Xie (MMath), “Privacy-Preserving Interest Matching for Mobile Social Networking”, Fall 2008 - Spring 2010

Aniket Kate (PhD Advisory and Thesis Committee [Ian Goldberg]), Fall 2008 - Spring 2010

Can Tang (MMath Thesis Reader [Ian Goldberg]), Spring 2010

Georgia Kastidou (PhD Advisory and Thesis Committee [Kate Larson & Robin Cohen]), Fall 2007 - Spring 2010

Wanying Luo (MMath), “Designing a Privacy-Aware Location Proof Architecture”, Fall 2008 - Winter 2010

Amir Khatib Zadeh (PhD Thesis Committee [Catherine Gebotys]), Winter 2010

Karim Ali (MMath Thesis Reader [Raouf Boutaba]), Fall 2009

Usman Ismail (MMath Thesis Reader [S. Keshav]), Spring 2009

Jiang Wu (PhD Advisory Committee and Thesis [Douglas Stinson]), Fall 2007 - Spring 2009

Tung Tran (MMath Thesis Reader [Raouf Boutaba]), Winter 2009

Gregory M. Zaverucha (PhD Advisory Committee [Doug Stinson]), Winter 2009

Anuchart Tassanaviboon (PhD Comprehensive Exam Committee [Guang Gong]), Winter 2009

Ben Ko (Undergraduate Research Assistant), Fall 2008

Aaditeshwar Seth (PhD Advisory and Thesis Committee [S. Keshav]), Fall 2006 - Fall 2008

Joel Reardon (MMath Thesis Reader [Ian Goldberg]), Spring 2008

Ahmed Ataullah (MMath Thesis Reader [Frank Tompa & Ashraf Aboulnaga]), Spring 2008

Agustin Dominguez Oviedo (PhD Thesis Committee [Anwar Hassan]), Spring 2008

Sumair Ur Rahman (MMath, co-supervised with S. Keshav), "Security for Rural Public Computing", Fall 2006 - Spring 2008

Ge Zhong (MMath), "Distributed Approaches for Location Privacy", Fall 2006 - Spring 2008

Xiaoxiao Li (Undergraduate Research Assistant), Winter 2008

Jiayuan Sui (MMath Thesis Reader [Douglas Stinson]), Winter 2008

Xiaoting Sun (MMath Thesis Reader [Ian Goldberg]), Fall 2007

David Bartley (Undergraduate Research Assistant), Spring 2007

Amir H. Chinaei (PhD Advisory Committee [Frank Tompa]), Spring 2006 - Spring 2007

Philip Cavaco (Undergraduate Research Assistant), Fall 2006

Tung Tran (Undergraduate Research Assistant), Spring 2006

Omar Zia Khan (MMath Thesis Reader [Jay Black]), Fall 2005

Ge Zhong (Undergraduate Research Assistant), Fall 2005

Academic Service

Program Committee Member

21st USENIX Security Symposium

10th International Conference on Mobile Systems, Applications, and Services (MobiSys 2012)

5th ACM Conference on Wireless Network Security (WiSec '12)

10th IEEE International Conference on Pervasive Computing and Communications (PerCom 2012)

3rd IEEE International Conference on Privacy, Security, Risk, and Trust (PASSAT2011)

4th ACM Conference on Wireless Network Security (WiSec '11)

9th IEEE International Conference on Pervasive Computing and Communications (PerCom 2011)

6th ACM International Conference on emerging Networking EXperiments and Technologies (ACM CoNEXT 2010)

2nd IEEE International Conference on Privacy, Security, Risk, and Trust (PASSAT2010)

8th IEEE International Conference on Pervasive Computing and Communications (PerCom 2010)

5th ACM International Conference on emerging Networking EXperiments and Technologies (ACM CoNEXT 2009)

2009 IEEE International Conference on PrivAcy, Security, riSk, And Trust (PASSAT-09)

11th International Conference on Ubiquitous Computing (UbiComp 2009)

3rd International Workshop on Privacy-Aware Location-based Mobile Services (PALMS'09)

International Workshop on Privacy in Location-Based Applications (PiLBA '08)

2nd International Workshop on Privacy-Aware Location-based Mobile Services (PALMS'08)

6th International Conference on Mobile Systems, Applications, and Services (MobiSys 2008)

Workshop on the Security and Privacy of Emerging Ubiquitous Communication Systems (SPEUCS 2007)

International Workshop on Privacy-Aware Location-based Mobile Services (PALMS 2007)

4th International Conference on Privacy, Security and Trust (PST 2006)

University Service

Member of School Commons Committee: 2011

Member of Graduate Recruiting Committee: 2009-2011

Member of CSCF Advisory Committee: 2008-2009

Member of School Space Committee: 2006-2008

Member of School Commons Committee: 2005-2008, 2011-

Personal Information

Swiss Citizen, Canadian Permanent Resident