

2020 ITS Canada Young Professional Award



Kevin Henry, PhD is the recipient of the 2020 ITS Canada Young Professional Award. Kevin holds a B.Sc in Mathematics and Computer Science from Brandon University, and an M.Math and Ph.D from the University of Waterloo, where he was a member of the Cryptography, Security, and Privacy Lab. Kevin's graduate research spanned a range of topics including voter-verifiable elections, distributed consensus algorithms, homomorphic cryptography and its use in privacy-preserving protocols, and a variety of security-related topics in wireless sensor networks. Kevin currently works as a Security Consultant and Software Developer for ESCRYPT, based in Waterloo.

ITS Industry/Business Contributions

Kevin is a committed and active participant on a significant number of working groups and communities of practice. He is always ready and willing to offer his knowledge and experience in the industry for advancement of ITS. He offers his support to government agencies such as Transport Canada, the National Research Council, and various USDOT SCMS initiatives. Industry-led groups also benefit from his participation for example: OmniAir, IEEE 1609 working group and the CSA/ACATS Connected and Automated Vehicle Advisory Council to name a few.

An accomplished and confident presenter, Kevin has traveled the world sharing his research papers at events geared to build industry knowledge and encourage dialogue with new and experienced attendees. Events include the ITS Canada Annual Conference, ITS America Annual Conference, and ITS World Congress, and other international venues. Kevin also works closely with Transport Canada's Advancing Connectivity and Automation in the Transportation System (ACATS) program, where he is the primary technical resource on helping develop a national framework to advance the deployment of vehicle-to-everything and security credential management system (SCMS) technologies. He has contributed to advancing V2X technologies in Canada under projects with AVIN, OCE, City of Stratford, the University of Alberta deployment (ACTIVE), and has published research with UBC's Prof. Dave Michelson.

Sharing his energy and talents within the community where he lives is very important to Kevin.

Every Saturday morning, rain or shine, Kevin is a lead participant in a volunteer-run community-oriented food availability group. They divert food that would otherwise go to waste and make it available to the community, both prepared meals and raw ingredients.

He also actively participates in a local youth focused STEAM program called Launch Waterloo <https://www.launchwaterloo.ca/> by designing, developing and participating in the delivery of cyber security demos.



Kevin is always the first one to volunteer to help University of Waterloo co-op students employed by ESCRYPT, to explore education and career options by providing real life experiences and insight into market trends. He leads by example in the ESCRYPT office making himself very available for to answer questions students ask as they seek him out to help monitor their work and provide an introduction into current technical solutions.