

Kristofer T. Coward M.Sc. Ph.D.

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179-264 Queens Quay W. Toronto, ON M5J 1B5

(416)937-5596

Profile

A high powered math, crypto and data nerd, with a hint of policy wonk, who is happiest using critical thinking and creative problem solving skills to do the impossible. In addition to a strong attention to detail, and the patience to tackle large and diverse projects, skills include:

- Thorough comprehension of blockchains, smart contracts, anonymization
- Solid understanding of cryptographic primitives and protocols
- Comfort with the design of technical systems to implement policy goals
- Excellent written and oral communication skills

Goals

I enjoy working in a start-up environment, where my deeper skills can

Work Experience

CHIEF SCIENTIST AND CO-FOUNDER: SHYFT NETWORK INC. 2017–present

- Designing the cryptographic protocols for a compliant identity blockchain
- Drafting technical standards to ensure compliance and auditability of user operations
- Liaising with financial executives and government officials on desired and necessary system features

CHIEF SCIENTIST AND CO-FOUNDER: BLOCKUNITY INC. 2017–present

- Evaluating the needs and mathematical/technical feasibility of various blockchain projects for the development of subsidiaries

CHIEF SCIENTIST: DECENTRAL 2016

- Provided mathematical expertise and technical comprehension of blockchain cryptosystems and protocols
- Developed proof of concept back ends reproducing all critical functions of major Canadian capital markets
- Designed systems for the incorporation of identity and messaging into a blockchain wallet

HEAD OF DATA SCIENCE: ADCHEMIX INC. 2014–2016

DATA SCIENTIST: GRANIFY 2012–2013

DATA SCIENTIST: KONTAGENT SOCIAL ANALYTICS 2009–2012

RESEARCHER: CALIOPE MUSIC SEARCH INC. 2008–2009

POST-DOCTORAL FELLOW: FIELDS INSTITUTE/YORK UNIVERSITY 2007–2008

Education

Ph.D.	Mathematics	University of Toronto	2007
M.Sc.	Mathematics	University of Toronto	2002
Hon.B.Sc.	Mathematics	University of Toronto	2001

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Publications

1. K. T. Coward, G. A. Elliott, C. Ivanescu: *The Cuntz semigroup as an invariant for C^* -algebras*, Journal für die reine und angewandte Mathematik (Crelle's Journal) 623 (2008), pp 161–193

Volunteer and Community Service

SITE 3 COLABORATORY CENTRE FOR ART AND TECHNOLOGY: DIRECTOR 2018–present

- Oversaw outreach, fundraising, and membership bylaw changes to recover a roughly 80 member makerspace from a \$16k tax debt (3 years of unfiled taxes)

DIRECTOR, TREASURER 2012–2015

HYPERBOREA EXPERENTIAL ARTS TEAM: ART LOGISTICS LEAD 2018–present

- Organized staging and transportation for about a dozen large-scale art installations from Toronto and Montreal to exhibit in Stone Mills

GREAT LAKES ALBERG ASSOCIATION: RACING DIRECTOR 2012–2014

SUPER STREET FIRE: LOGISTICS LEAD 2012

CYCLE ONTARIO ALLIANCE: DIRECTOR, TREASURER 2005–2007

- Restructured financial records to bring into accordance with GAAP
- Spearheaded Ontario Bike Plan project, leading to the CycleON provincial cycling strategy

Interests

In my spare time, I live on a sailboat, race and cruise with my home, build mathematical sculptures and engaging playground toys, bicycle, hunt, maintain an internet server (hosting about a dozen virtual servers), and learn and practice fabrication techniques for sculpture in various media (with a particular focus on metal, electronics, and the use of fire — I am a licensed pyrotechnician).
