

# Meet our leaders

---



## Tomi Poutanen

CEO & Co-founder, Signal 1

Co-founder, Layer 6

Former Chief AI Officer, TD Bank Group

Tomi is the CEO and a co-founder of Signal 1. Before Signal 1, Tomi co-founded Layer 6 which was acquired in 2018 by TD Bank Group, where he served as SVP and Chief AI Officer. Prior to Layer 6, Tomi founded three technology companies with exits to Microsoft and Yahoo!. Tomi is a co-founder of the Vector Institute, a world leading academic research institute for deep learning, and a co-founder and Partner of Radical Ventures, a leading AI-focused venture fund. He is a founding fellow at the Creative Destruction Lab, the world's largest AI venture accelerator. Tomi holds an MSc in Computer Engineering and an MBA from the University of Toronto.



## Mara Lederman

COO & Co-founder, Signal 1

Former Professor, Strategic Management, Rotman School of Management, University of Toronto

Former Site Lead, Creative Destruction Lab (Toronto)

Mara is the COO and a co-founder of Signal 1. Before Signal 1, Mara was a professor at the University of Toronto's Rotman School of Management. Mara is an expert in the areas of platform economics and start-up commercialization strategy. From 2018 to 2021, Mara led the Toronto site of the Creative Destruction Lab (CDL) - a world-leading mentorship program for massively scalable science and technology based start-ups. As Site Lead for CDL-Toronto, Mara was responsible for CDL-Toronto's overall strategy and oversaw the expansion of CDL-Toronto's footprint into new areas including launching CDL-Toronto's three health-related streams. Mara holds a PhD in Economics from MIT.



## Muhammad Mamdani

Clinical Advisor, Signal 1

Vice President, Data Science and Advanced Analytics, Unity Health Toronto

Odette Chair in Advanced Analytics

Faculty Affiliate, Vector Institute

Director, University of Toronto Temerty Centre for AI in Research and Education in Medicine (T-CAIREM)

Professor, University of Toronto

Muhammad is the Vice President of Data Science and Advanced Analytics at Unity Health Toronto. Muhammad's team integrates advanced analytics, including machine learning, with clinical and management decision-making to improve patient outcomes and hospital efficiency. Muhammad is also a Professor in the Department of Medicine of the Temerty Faculty of Medicine, the Leslie Dan Faculty of Pharmacy, and the Institute of Health Policy, Management and Evaluation of the Dalla Lana Faculty of Public Health - all at the University of Toronto. Muhammad holds a Doctor of Pharmacy degree from the University of Michigan, a fellowship in pharmacoeconomics from the Detroit Medical Centre, a Master of Arts degree in econometric theory from Wayne State University, and a Master of Public Health from Harvard University.



## Maks Volkovs

AI Scientist in Residence, Signal 1

SVP & Chief AI Scientist, Layer 6 TD Bank Group

Maks is a co-founder of Layer 6 and the Chief AI Scientist at TD Bank Group. Maks received his Ph.D from the University of Toronto where he was part of the Machine Learning Group led by Geoffrey Hinton. He previously worked at Microsoft Research and at Credit Suisse in London, UK. Maks is the winner or medalist in multiple international machine learning competitions run by Kaggle (where his global peak ranking was #47 of over 75,000 data scientists), ACM RecSys (including winners of the 2017 and 2018 RecSys Challenge) and others.

# Meet our team

---



## Pete Cronin

VP of Business Operations, Signal 1

MBA, Cornell University

Pete is the VP of Business Operations at Signal 1 and responsible for Signal 1's growth and business operations. Before Signal 1, Pete was an Executive Director at Unity Health Toronto focused on broadening the impact of locally developed clinical AI solutions and creating business models and strategies where they could be commercialized and scaled more broadly. Prior to Unity, Pete worked at McKinsey & Company and advised fortune 500 companies on how to improve service operations leveraging digital tools and AI. Pete also worked in product marketing at TELUS including a focus on creating consumer-based mobile health applications. Pete holds an MBA from Cornell University.



## Alice Yang

VP of Finance and HR, Signal 1

MBA, University of Cambridge

Alice is the VP of Finance and HR at Signal 1. Before Signal 1, Alice was the Head of Operations of Layer 6 at TD Bank Group. She led the execution of strategic initiatives, business operations and finance while overseeing the implementation of AI applications and managing external partnerships in the healthcare community. Prior to Layer 6, Alice had strategy consulting experience with some of the largest technology companies including Google and SAP. Alice spent a number of years as a corporate banker at HSBC, where she financed many public and private multinational corporations in a variety of industries. Alice received her MBA from University of Cambridge and BComm from University of Toronto.



## Sheena Melwani

Deployment Manager, Signal 1

MS in Health Informatics, University of Toronto

Sheena Melwani cut her teeth at University Health Network, Canada's largest research hospital, where she worked for over seven years in the fields of product management and implementation science. She led initiatives in outpatient clinics to design and implement digitally-enabled models of care for patients with chronic illness. From building technology from scratch to procuring and configuring off the shelf solutions - Sheena has done it all and she is driven by her desire to improve patient experiences. Sheena holds a BA&Sc. from McGill University and a Masters in Health Informatics from the University of Toronto.



## Ehud Lehavi

Quality Assurance and Regulatory Compliance Specialist, Signal 1

MEng in Biomedical Engineering, UBC

Ehud is an experienced Biomedical Engineer with medical device start-up experience, working in QA/RA and development positions. Before joining Signal 1 as a Quality Assurance and Regulatory Compliance Specialist, Ehud worked for medical device and life science companies implementing quality systems and producing regulatory strategies for commercializing medical devices. Ehud holds an MEng in Biomedical Engineering from the University of British Columbia and a BSC in Materials Engineering.



## Felipe Perez

VP of Machine Learning, Signal 1

Ph.D in Math, University of Michigan

Felipe is the VP of Machine Learning at Signal 1. Prior to joining Signal 1, Felipe was a Senior Machine Learning Scientist at Layer 6 where he led a team in Natural Language Processing and Recommender System research. Besides research, Felipe has delivered a number of applications of AI for TD insurance, work that has obtained enterprise-wide awards and granted patents. Felipe also participated in several machine learning competitions where Layer 6 obtained top places. Felipe has a Math Ph.D from University of Michigan and his publication records range from a variety of topics including Math, Quantum Computing, Structural Biology, and Machine Learning.



## Ilya Stanevich

Senior Machine Learning Scientist, Signal 1

Ph.D in Physics, University of Toronto

Ilya is a Senior Machine Learning Scientist at Signal 1. Before joining Signal 1, Ilya was a Machine Learning Scientist at Layer 6 where he created value for a variety of business lines at TD. Ilya's use case on Collections was TD's first machine learning application running on the Cloud, helping the bank save tens of millions of dollars. He was also part of the winning team that achieved first place in the 2019 YouTube-8M Video Understanding Challenge and second place in the 2019 ACM RecSys Challenge. Ilya holds a Ph.D in Physics from University of Toronto where he conducted research in Earth, Atmospheric and Planetary Science. He received his Master's and Bachelor's degrees in Applied Physics and Maths from Moscow Institute of Physics and Technology.



## Bo Wang

VP of Platforms and Delivery, Signal 1

Ph.D in Computer Science, Peking University

Bo is the VP of Platforms and Delivery at Signal 1. Prior to joining Signal 1, Bo was the Head of Data and Infrastructure at Layer 6. He is a seasoned technology leader with extensive experience in distributed systems, complex data-intensive systems, infrastructure, security and project delivery. Bo leads the Layer 6 AI Platform, which hosts bank data securely in the public cloud, and enables model delivery for all lines of businesses. Bo received his Ph.D. in Computer Science from Peking University. He was a visiting researcher at the University of Waterloo in Canada and the National Institute of Informatics in Japan.



## Gobinath Loganathan

Senior Software Engineer, Signal 1

MSc Electrical and Computer Engineering, Western University

Gobinath is a Senior Software Engineer at Signal 1. Prior to Signal 1, Gobinath worked at Layer 6 where he was building big data frameworks for data engineers. He is a big data and distributed computing enthusiast with 4+ years of experience in building big data engines. The core system components designed by him process millions of events and terabytes of data each day globally. Gobinath holds an MSc in Software Engineering with research focused on self-optimizing stream processing engines.





## Hanyang Li

Senior Software Engineer, Signal 1

MS Applied Computing, University of Toronto

Hanyang is a Senior Software Engineer at Signal 1. He is a seasoned and passionate software engineer in data-centric applications and platforms. He had extensive experience as a software engineer building user behavior analysis applications for search engines at Baidu, web applications for ecommerce at Alibaba, and data platforms for capital markets at RBC. He also worked as a research engineer building recommender systems and autocomplete systems for ebooks at Kobo. Hanyang holds a Master's degree in Applied Computing from the University of Toronto and a Master's degree in Control Theory and Control Engineering from Zhejiang University.



## Peiwen Zhong

Software Engineer, Signal 1

MS Computer Engineering, University of Toronto

Peiwen is a software engineer at Signal 1. She has years of experience in Engineering and has previously worked at companies including IBM and Layer 6. She's experienced in data and machine learning platforms and various machine learning use cases. Peiwen holds a Master's degree in Computer Engineering from the University of Toronto.



## Oleksandr Trapeznikov

Senior Platform Engineer, Signal 1

BSc Computer Science, Kyiv Polytechnic Institute

Oleksandr is a Senior Platform Engineer at Signal 1. Oleksandr is passionate about cloud infrastructure and automation. He enjoys solving problems, helping teammates, and making things work. In his prior experience at Layer6 and other companies, Oleksandr completed multiple projects in cloud migration and software development life cycle automation, and also delivered large scale projects to customers across North America. Oleksandr holds a Bachelor of Computer Science degree, and college diplomas in Software Engineering and Computer Networking.



## Byunghoon Yoon

Senior Software Engineer, Signal 1

BSc in Computer Science, University of Waterloo

Byunghoon is a senior software engineer at Signal 1. He first joined Tomi's journey in 2014, where he developed iOS and web applications for a social media company Milq. He then continued to work with Tomi at Layer 6 as a founding member and a machine learning engineer, architecting and developing the company's proprietary Core ML framework which is used by every applied ML project at Layer 6 to streamline model development and deployment processes. Byunghoon's current role at Signal 1 is to build foundations of all web-based services and to lead development of the Signal 1 Monitor, a model performance monitoring dashboard. Byunghoon holds a Bachelor of Computer Science degree from University of Waterloo.



