

# Faculty Appointments 2017-18

“A year of unprecedented growth and talent. We welcome the next wave of U of T computer science faculty. Together we will address and solve some of society’s most pressing challenges, building on our research strength and the collaborative approaches U of T is known for.”

**Ravin Balakrishnan**  
Professor & Chair



## SYED ISHTIAQUE AHMED

Assistant Professor  
Department of Computer Science

– PhD, Cornell University

**Human-Computer Interaction:** Access, visibility and freedom in user-interface design

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## ALÁN ASPURU-GUZIK

Professor and Canada 150 Research Chair  
Department of Chemistry  
Department of Computer Science

– PhD, University of California, Berkeley

**Quantum Information, Machine Learning and Robotics for Chemistry:** Developing and employing machine learning and robotics tools to accelerate the discovery process of new molecules and materials; Developing algorithms for quantum computers for solving chemistry and physics problems and quantum machine learning; Molecular computing

aspuru@cs.toronto.edu  
Starting Summer 2018



## JIMMY BA

Assistant Professor  
Department of Computer Science

– PhD, University of Toronto  
– Postdoc, Massachusetts Institute of Technology

**Deep Learning and Artificial Intelligence:** Learning algorithms to solve artificial general intelligence, deep reinforcement learning, understanding neural networks

jba@cs.toronto.edu  
Starting Summer 2018



## FANNY CHEVALIER

Assistant Professor  
Department of Computer Science  
Department of Statistical Sciences

– PhD, Université de Bordeaux  
– Postdoc, University of Toronto and OCAD U

**Data Visualization and Analytics:** Computing tools for the interactive visual exploration of rich and complex data, visualization education, and sketch-based interfaces

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## MURAT A. ERDOĞDU

Assistant Professor  
Department of Computer Science  
Department of Statistical Sciences

– PhD, Stanford  
– Postdoc, Microsoft Research

**Machine Learning:** Optimization algorithms for machine learning problems, high-dimensional statistics, graphical models

erdogdu@cs.toronto.edu  
Starting Summer 2018



## MARZYEH GHASSEMI

Assistant Professor  
Department of Computer Science  
Department of Medicine

– PhD, Massachusetts Institute of Technology  
– Postdoc, Massachusetts Institute of Technology  
– Visiting Researcher, Google Verily

**Computational Medicine:** Developing and applying machine learning algorithms towards prediction and stratification of relevant human risks

mghassem@cs.toronto.edu  
Starting Summer 2018



## TOVI GROSSMAN

Assistant Professor  
Department of Computer Science

– PhD, University of Toronto  
– Distinguished Research Scientist, Autodesk Research

**Human-Computer Interaction:** Learning, tutorials, 3D user interfaces, interactive fabrication, sketch-based animation

tovi@cs.toronto.edu  
Starting Summer 2018



## ARVIND GUPTA

Professor  
Department of Computer Science

– PhD, University of Toronto

**Theoretical Computer Science and Innovation Policy:** Algorithmic bioinformatics, graph theory; Models for innovation, higher education policy, science and technology policies

arvind@cs.toronto.edu  
Starting Summer 2018



## FAN LONG

Assistant Professor  
Department of Computer Science

– PhD, Massachusetts Institute of Technology

**Software Engineering / Programming Languages:** Program analysis, software engineering, systems security

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Starting Summer 2018



## YANG XU

Assistant Professor  
Department of Computer Science  
University College, Cognitive Science

– PhD, Carnegie Mellon University  
– Postdoc, University of California, Berkeley

**Computational Cognitive Science:** Language and cognition, word meaning, historical semantic change, cross-linguistic semantics, linguistic relativity, lexicon, probabilistic models, machine learning, computational linguistics

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## HENRY YUEN

Assistant Professor  
Department of Computer Science  
Department of Mathematics

– PhD, Massachusetts Institute of Technology  
– Postdoc, University of California, Berkeley

**Quantum Computing and Cryptography:** Interactive protocols for quantum information processing, privacy and security in a quantum world, quantum complexity theory

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Starting Summer 2018