JESSICA BURGNER-KAHRS

Associate Professor, Department of Mathematical and Computational Sciences
University of Toronto Mississauga

▶ PhD, Karlsruhe Institute of Technology, Germany

Currently: Associate Professor, Leibniz Universität Hannover

Robotics: Continuum Robots, Surgical Robots, Soft Robots, Modeling, Planning and Control, Design, Human Robot Interaction

www.cs.toronto.edu/~jbk

Joining U of T faculty: Spring 2019

ANIMESH GARG

Assistant Professor, Department of Mathematical and Computational Sciences
University of Toronto Mississauga

▶ PhD, University of California, Berkeley

Currently: Postdoctoral Researcher, Stanford University

Robotics: Machine Learning, Computer Vision, Reinforcement Learning

www.cs.toronto.edu/~garg

Joining U of T faculty: Summer 2019

JOSEPH JAY WILLIAMS

Assistant Professor, Department of Computer Science

▶ PhD, University of California, Berkeley

Previously: Assistant Professor, National University of Singapore (NUS)

Learning & Human-Computer Interaction: Dynamically enhancing and personalizing user interfaces for education and health by integrating randomized A/B experimentation, Psychological Theory, Crowdsourcing, Statistical Machine Learning

williams@cs.toronto.edu
www.cs.toronto.edu/~williams

Joined U of T faculty: Summer 2018

MARYAM MEHRI DEHNAVI

Assistant Professor, Department of Computer Science

▶ PhD, McGill University
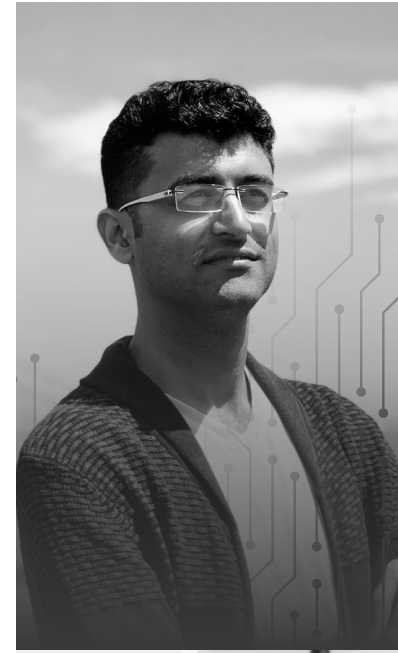▶ Postdoc, Massachusetts Institute of Technology

Previously: Assistant Professor, Rutgers University

Parallel Computing and Compilers: Parallel Algorithms, Machine Learning, Compilers, High-Performance Computing, Cloud Computing, Numerical Algebra

mmehride@cs.toronto.edu
www.cs.toronto.edu/~mmehride

Joined U of T faculty: Summer 2018

FLORIAN SHKURTI

Assistant Professor, Department of Mathematical and Computational Sciences
University of Toronto Mississauga

▶ PhD, McGill University

Mobile Robotics: Learning from Demonstrations, Computer Vision, Machine Learning, Control, Human-Robot Interaction, Field Robotics

florian@cs.toronto.edu
www.cs.toronto.edu/~florian

Joined U of T faculty: Fall 2018

Faculty Appointments
2018/19

"We are pleased to welcome another extraordinary group of researchers to the University of Toronto, including a new – and expanding – robotics research cluster at U of T Mississauga. Our new colleagues significantly increase the diversity and reach of our research, scholarship and teaching, taking us into areas of Computer Science well beyond what we have traditionally covered." – **Ravin Balakrishnan**, Professor & Chair

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

ishtiaque@cs.toronto.edu
www.cs.toronto.edu/~ishtiaque

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

fanny@cs.toronto.edu
www.cs.toronto.edu/~fanny

MURAT A. ERDOGDU
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

fanl@cs.toronto.edu
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

yangxu@cs.toronto.edu
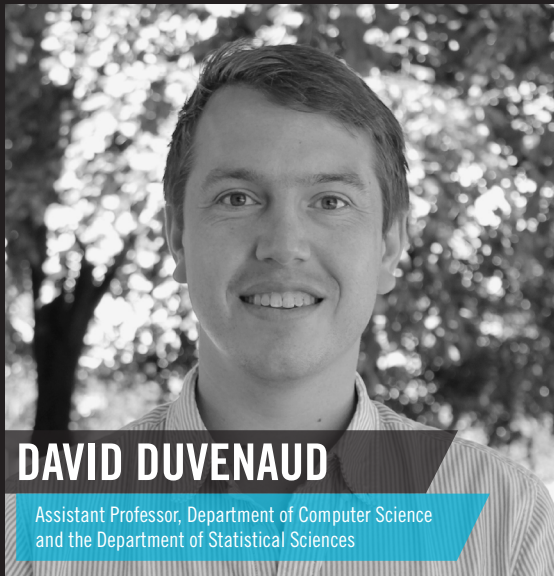www.cs.toronto.edu/~yangxu

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

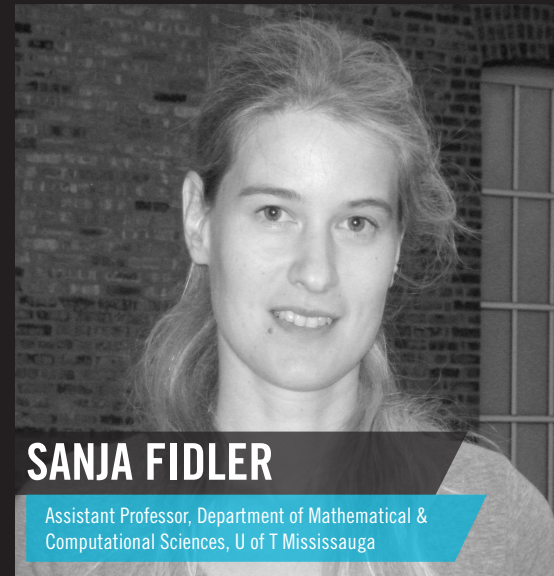hyuen@cs.toronto.edu
Starting Summer 2018

Faculty Appointments 2016/2017

DAVID DUVENAUD
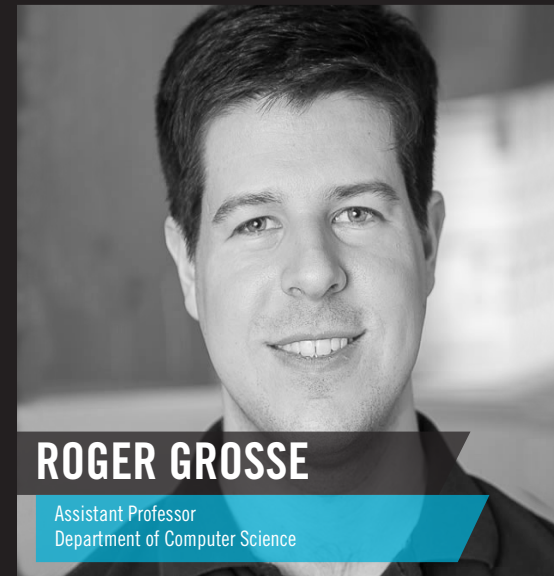Assistant Professor, Department of Computer Science and the Department of Statistical Sciences

– PhD, University of Cambridge
– Postdoc, Harvard University

MACHINE LEARNING: Deep learning techniques for inferring probabilistic models from large data sets

duvenaud@cs.toronto.edu
www.cs.toronto.edu/~duvenaud

SANJA FIDLER
Assistant Professor, Department of Mathematical & Computational Sciences, U of T Mississauga

– PhD, University of Ljubljana
– Postdoc, University of Toronto

COMPUTATIONAL VISION AND MACHINE LEARNING: Object recognition, 3D scene understanding; combining vision and language

fidler@cs.toronto.edu
www.cs.utoronto.ca/~fidler/

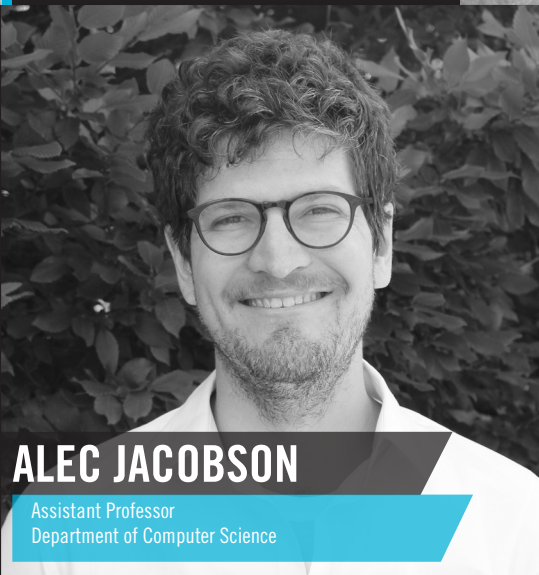## ROGER GROSSE
Assistant Professor Department of Computer Science

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

MACHINE LEARNING: Accurate statistical computation and novel ideas for automated discovery of appropriate structures for statistical modeling

rgrosse@cs.toronto.edu
www.cs.toronto.edu/~rgrosse

ALEC JACOBSON
Assistant Professor Department of Computer Science

– PhD, ETH Zurich
– Postdoc, Columbia University

COMPUTER GRAPHICS: Real-time deformation techniques for 2D and 3D shapes and user interfaces

jacobson@cs.toronto.edu
www.cs.toronto.edu/~jacobson

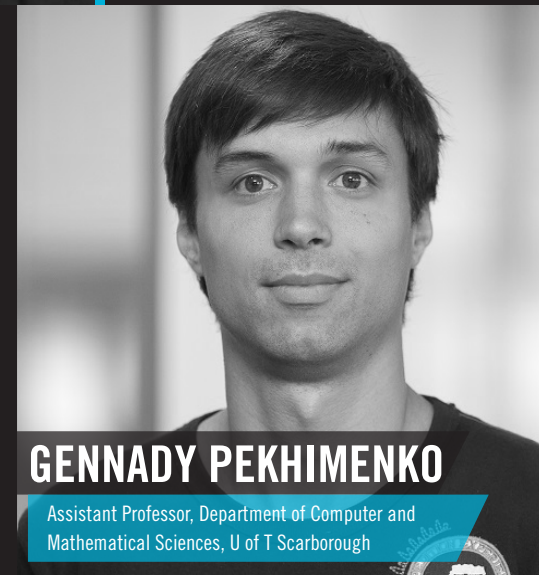## DAVID LEVIN
Assistant Professor Department of Computer Science

– PhD, University of British Columbia
– Postdoc, Massachusetts Institute of Technology
– Research Scientist, Disney Research

COMPUTER GRAPHICS: Using new simulation techniques to allow artists, engineers and scientists to study and create – from animations to machines

diwlevin@cs.toronto.edu
www.cs.toronto.edu/~diwlevin

GENNADY PEKHIMENKO
Assistant Professor, Department of Computer and Mathematical Sciences, U of T Scarborough
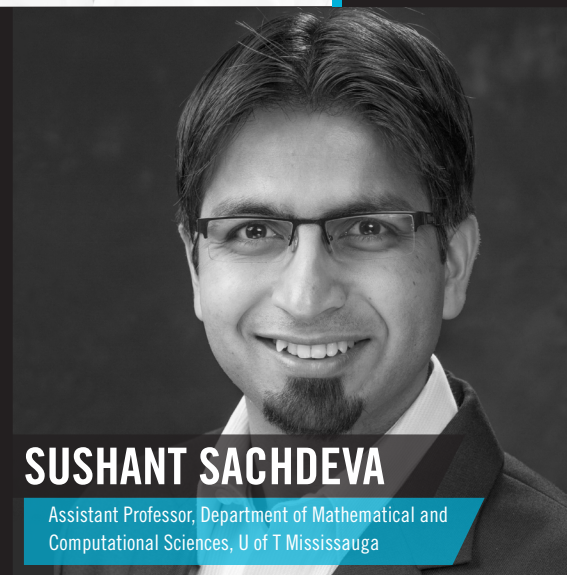
– PhD, Carnegie Mellon University
– Currently at: Microsoft Research

COMPUTER SYSTEMS AND BIOINFORMATICS: Efficient memory hierarchy designs with data compression, compilers, GPUs

pekhimenko@cs.toronto.edu
Starting Summer 2017

SUSHANT SACHDEVA
Assistant Professor, Department of Mathematical and Computational Sciences, U of T Mississauga

– PhD, Princeton University
– Postdoc, Yale University
– Currently at: Google Research

THEORETICAL COMPUTER SCIENCE: Algorithms and their connections to optimization, machine learning, and statistics; design of fast algorithms for graph problems

sachdeva@cs.toronto.edu
Starting Summer 2017

NISARG SHAH
Assistant Professor Department of Computer Science

– PhD, Carnegie Mellon University
– Currently at: Harvard University, Postdoc

ALGORITHMIC ECONOMICS: Computational social choice, fair division, game theory (both cooperative and noncooperative), and prediction markets

nkshah@cs.toronto.edu
Starting Summer 2017

"These researchers bring a breadth of experience and new ideas and are representative of the next wave of trailblazing research and teaching at U of T."

– **Ravin Balakrishnan,** Professor & Chair