

Data Analytics & Visualization Summer School 2018

CREATE DAV Summer School – DAY 1 (York University)

TUESDAY JULY 3	Bergeron Centre, room 313 (Keele Campus map: building #81)	
8:30 – 9:00 AM	Breakfast & Registration	
9:00 – 9:15AM	<i>Program Introduction</i> Dr. James Elder, Director CREATE DAV Program and Lead Principal Investigator	
9:15 - 10:00 AM	<i>3D Augmented Urban Space Modeling from Point Clouds</i> Dr. Gunho Sohn, York University, Faculty of Geomatics Engineering	
10:00 - 10:15 AM	Break	
10:15 - 11:00 AM	<i>Applications of Lidar: Flying, Driving, Walking and Standing</i> Dr. Paul LaRocque, Teledyne Optech, Vice President, Business Development	
11:00- 11:15 AM	Break & Refreshments	
11:15 – 12:00 PM	<i>Human and Machine Perception of 3D Shape from Contour</i> Dr. James Elder, York University, Faculty of Electrical Engineering and Computer Science, Faculty of Psychology	
12:00 – 12:20 PM	<i>Predicting the Puck Location to Enable Automatic Broadcasting of Ice Hockey</i> Hemanth Pidaparthi, PhD candidate Mentor: Dr. James Elder, York University	
12:20 – 12:40 PM	<i>Deep multi-task learning for tree genera classification</i> Dr. Jungwon Kang, PDF Mentor: Dr. Gunho Sohn, York University	
12:40 – 1:40 PM	Lunch & Networking	
1:40 – 2:15 PM	LAB TOUR Group 1	LAB TOUR Group 2
	Dr. James Elder's (LAS002B)	Dr. Gunho Sohn's (PSE 312)
2:15 – 2:50 PM	Dr. Gunho Sohn's (PSE 312)	Dr. James Elder's (LAS002B)

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TUESDAY JULY 3	Petrie Building, Computer lab (PSE 02) (Keele Campus map: building #17)
2:50 – 4:20 PM	<i>3D Scanning and Augmentation</i> Hands-on Activities, led by Dr. Gunho Sohn
4:20 – 4:30 PM	Survey collection

CREATE DAV Summer School – DAY 2 (OCAD U)

WEDNESDAY JULY 4	100 McCaul St., Auditorium (Toronto, ON M5T 1W1)
7:35 AM	Bus departure to OCAD U
8:30 – 9:00 AM	Arrival & Breakfast
9:00 – 9:45 AM	<i>TasteGraph - OCAD University's Current Research with the Globe and Mail</i> Dr. Sara Diamond, OCAD University President
9:45 – 10:30 AM	<i>Cross-sensory modelling and mapping research to support inclusive data analytics design</i> Dr. Peter Coppin, OCAD University, Faculty of Design
10:30 – 10:50 AM	<i>Soccer Spectatorship: From Visual to Tactile Data Representation</i> Felipe Sarmiento, M.Des candidate Mentor: Dr. Peter Coppin, OCAD University
10:50 – 11:05 AM	Break & Refreshments
11:05 – 11:45 AM	<i>Non-Visual Modelling and Mapping</i> Lena Yusim, M.Des candidate & Brandon Biggs, M.Des candidate Mentor: Dr. Peter Coppin, OCAD University
11:45 – 12:05 AM	<i>Cross-sensory Interactive Earth Globe</i> Uttara Ghodke, M.Des candidate Mentor: Dr. Peter Coppin, OCAD University
12:05 – 11:15 AM	Break
12:15 – 12:35 PM	<i>Visualizing the street : Data visualization and collection</i> Mudit Ganguly, M.Des candidate Mentor: Dr. Sara Diamond, OCAD University

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12:35 – 12:55 PM	<i>Scalable Visualizations (Social and Semantic Networks)</i> Ajaz Hussain, PhD, Postdoctoral Fellow Mentor: Dr. Sara Diamond, OCAD University
12:55 – 1:45 PM	Lunch & Networking
1:45 – 2:05 PM	<i>The role of designers and design thinking in big data analytics</i> Afrooz Samaei, M.Des candidate Mentor: Dr. Sara Diamond, OCAD University
2:05 – 2:50 PM	<i>Co-designing the future of health technology with patients and providers</i> Aryn Gatto, Senior Project Manager, QoC Health
2:50 – 4:45 PM	LAB (RHA) TOUR – Dr. Sara Diamond’s & Hands-on Activities, led by Marcus Gordon
4:45 – 5:00 PM	Survey collection
5:00 PM	Bus departure to York University

CREATE DAV Summer School – DAY 3 (York University)

THURSDAY JULY 5	Bergeron Centre, room 313 (Keele Campus map: building #81)
8:30 – 9:00 AM	Breakfast & Registration
9:00 – 9:45 AM	<i>Data-driven Neural Network Architecture for High Dimensional Data Pattern Recognition</i> Dr. Jianhong Wu, York University, Faculty of Mathematics and Statistics
9:45 - 10:30 AM	<i>LED Notification Appliances for Emergency Signalling</i> Mr. Laurie Eisner, Mircom Group, Vice President, Product Development
10:30 - 10:45 AM	Break & Refreshments
10:45 - 11:30 AM	<i>Mining Large-scale News Articles for Predicting Forced Migration</i> Dr. Aijun An, York University, Faculty of Electrical Engineering and Computer Science
11:30- 11:50 AM	<i>Embedding Methods for Dynamic Graphs</i> Sedigheh Mahdavi, PhD, Postdoctoral Fellow Mentor: Dr. Aijun An, York University
11:50 – 12:00 PM	Survey Collection

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12:00 – 1:00 PM

Lunch & Networking

1:00 PM

Free time

CREATE DAV Summer School – DAY 4 (York University)

**FRIDAY
JULY 6**

**Bergeron Centre, room 313
(Keele Campus map: building #81)**

8:30 – 9:00 AM

Breakfast

9:00 – 9:45 AM

Analyzing and visualizing people's movement in a space to inform architectural design

Dr. Petros Faloutsos, York University, Faculty of Electrical Engineering and Computer Science

9:45 – 10:00 AM

Break

10:00 – 10:45 AM

Visualizing developments and street scenarios in Toronto's urban core: A 3D design study

David Kossowsky, GeoDesign Specialist, Esri Canada

10:45 – 11:00 AM

Break & Refreshments

11:00 – 11:20 AM

*Visualize Fast, Visualize Often
Important Insights from Small Changes in Perspective*

Brandon Haworth, Ph.D candidate
Mentor: Dr. Petros Faloutsos, York University

11:20 – 11:40 AM

Interactive Spatial Visualizations
Muhammad Usman, Ph.D candidate
Mentor: Dr. Petros Faloutsos, York University

11:40 – 12:25 PM

Principles and Medical Applications of Ultrasound Elastography
Dr. Amir Asif, Concordia University, Dean of Faculty of Engineering and Computer Science

12:25 – 1:25 PM

Lunch & Networking

1:25 – 2:10 AM

End-to-end Graph Analytics
Dr. Manos Papagelis, York University, Faculty of Electrical Engineering and Computer Science

Group 1

Group 2

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2:10 – 3:15 PM	LAB TOUR (LAS 0018) Dr. Petros Faloutsos'	Meet the Professors
3:15 – 4:15 PM	Meet the Professors	LAB TOUR (LAS 0018) Dr. Petros Faloutsos'
4:15 – 4:30 PM	Survey collection	

FRIDAY JULY 6	Bergeron Building, a space near Room 125 (Keele Campus map: building #81)
4:30 – 7:00 PM	Bergeron virtual tour and Reception