

matthew
tesfaldet



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education

m. sc., computer science

York University, Toronto, Ontario, 2016 - Present

Expected graduation date: August 2018

Research interests: computer vision and deep learning (generative models, texture synthesis, and motion analysis)

Supervisors: Dr. Marcus A. Brubaker and Dr. Konstantinos G. Derpanis

honours b. sc., computer science (co-op) with minor in mathematics

Ryerson University, Toronto, Ontario, 2011 - 2016

CGPA: 4.24 / 4.33

publications

Tesfaldet, M., Brubaker, M.A., Derpanis, K.G., Two-stream convolutional networks for dynamic texture synthesis. In CVPR, 2018.

Presented at:

- ModiFace Inc., 2018. (Invited talk).
- Ryerson Science Literacy Week 2017. (Poster presentation).
- Ryerson GRADShowcase 2017. (Poster presentation).
- International Computer Vision Summer School 2017 (ICVSS). (Poster and oral presentation). (Best presentation award).
- Deep Learning Summer School 2017 (DLSS). (Poster presentation).

awards & achievements

vista doctoral scholarship

York University, Toronto, Ontario, Sept 2018 - Sept 2022, 40000 CAD

nserc canada graduate scholarships-doctoral (cgs-d)

York University, Toronto, Ontario, Sept 2018 - Sept 2021, 105000 CAD

ontario graduate scholarship (ogs)

York University, Toronto, Ontario, Sept 2018 - Sept 2019, 15000 CAD
(declined in favour of NSERC CGS-D)

vector affiliate/fellowship

Vector Institute, Toronto, Ontario, Feb 2018 - Feb 2020, 4000 CAD
Awarded to top applicants doing research on novel methods or applications in the area of deep learning and/or machine learning.

best presentation award

International Computer Vision Summer School (ICVSS), Sicily, Italy, July 2017, 525 EUR

Awarded to the top-3 (out of 60) ranked posters submitted to the summer school. The selected winners are given an opportunity for an oral presentation. <http://iplab.dmi.unict.it/icvss2017/PresentationPrize>

nserc canada graduate scholarships-master's (cgs-m)

York University, Toronto, Ontario, April 2017 - April 2018, 17500 CAD

ontario graduate scholarship (ogs)

York University, Toronto, Ontario, April 2017 - April 2018, 15000 CAD
(declined in favour of NSERC CGS-M)

york graduate scholarship

York University, Toronto, Ontario, Sept 2016, 6000 CAD

Awarded to top-ranked applicants in the first year of study based on their academic merit.

nserc undergraduate student research award

Ryerson University, Toronto, Ontario, May 2016 - August 2016, 11295 CAD



sony canada charitable foundation scholarship

Ryerson University, Toronto, Ontario, 2014 - 2015, 1500 CAD
Presented to a student currently enrolled in fourth year of the Computer Science program on a full-time basis with a clear academic standing; must have the highest CGPA at the end of the third year.

sudharakan aerath memorial award

Ryerson University, Toronto, Ontario, 2013 - 2014, 200 CAD
Presented to a student currently enrolled full-time in Computer Science and who has the highest overall standing in Mathematics in the first four semesters.

department of computer science award

Ryerson University, Toronto, Ontario, 2013 - 2014
Presented to the three students with the strongest academic performance in second year.

alumni award

Ryerson University, Toronto, Ontario, 2013 - 2014
For best overall performance in CPS 213 Computer Organization I and CPS 310 Computer Organization II.

james h. rattray memorial award

Ryerson University, Toronto, Ontario, 2012 - 2013, 200 CAD
Awarded for academic excellence in first year.

faculty of science dean's list

Ryerson University, Toronto, Ontario, 2012 - 2016
Maintained a GPA above 3.5 during the academic year.

queen elizabeth II aiming for the top scholarship

Ryerson University, Toronto, Ontario, 2011 - 2014, 14000 CAD
Awarded for outstanding academic achievement upon secondary school graduation.

top entrance scholarship

Ryerson University, Toronto, Ontario, 2011 - 2014, 16000 CAD
Awarded for entering Ryerson University with an average above 95%.

ryerson scholar

Ryerson University, Toronto, Ontario, 2011 - 2012
Recognition for entering Ryerson University as an Ontario Scholar.

summer schools attended

international computer vision summer school (ICVSS)

Sicily, Italy, July 2017

deep learning and reinforcement learning summer school (DLSS/RLSS)

Université de Montréal, Montréal, Québec, June 2017 - July 2017

work experience

research assistant (nserc usra)

Ryerson University, Toronto, Ontario, May 2016 - August 2016
Researched computer vision applications using machine learning under the supervision of Dr. Konstantinos G. Derpanis.

software developer

D2L, Toronto, Ontario, January 2015 - August 2015
Helped design and develop solutions for enhancing the learning experience in the corporate workspace.



software developer

RL Solutions, Toronto, Ontario, May 2014 - August 2014

Responsible for designing and developing product administration tools; supported the Product Development team with troubleshooting. Developed a migration tool supporting large-scaled data migration for clients upgrading from the legacy product to the latest version.

research assistant

Ryerson University, Toronto, Ontario, January 2014 - April 2014

Researched under Dr. Alireza Sadeghian and collaborated with St. Michael's Hospital in ideating surgery-assistance software solutions with Google Glass and Microsoft Kinect.

software developer

Desire2Learn Inc., Toronto, Ontario, May 2013 - August 2013

Developed a comment and rating system for the Integration & Extensibility team's application store. Helped maintain and develop an online application store for clients to easily locate and install extensions to their Learning Management Systems.

volunteer experience

ml ensemble 002/003

ML Ensemble, Toronto, Ontario, Jan 2018 / Jun 2018

ML Ensemble is a one-day meeting for machine learning researchers and practitioners to learn from each other. In charge with setting up and operating the PA system.

director of science

Ryerson Students' Union, Toronto, Ontario, May 2015 - May 2016

The Board of Directors is the representative body for all full-time undergraduate and all graduate students at Ryerson University. Ensure that the concerns of students from individual faculties and programs are well represented at the RSU.

vice-president careers & outreach

Ryerson Computer Science Course Union, Toronto, Ontario, May 2015 - May 2016

Consult with the Co-op Program Director on issues identified by members with the co-op program. Act as a liaison between the Office of Co-operative Education, the Career Centre, the Office of Science Outreach and Enrichment and the organization. Help plan and organize career oriented events in consultation with the Vice President Operations and Events.

tutor

Pointers Homework Help Club, Toronto, Ontario, September 2014 - December 2014

Led the Ryerson Computer Science Course Union's "Pointers" Homework Help Club for 1st and 2nd Year Computer Science students looking for help in their Math and/or Computer Science courses.

4th year representative

Ryerson Computer Science Course Union, Toronto, Ontario, May 2014 - January 2015

Acted as a liaison and representative between the fourth-year students and the faculty. Responsible for effectively communicating the wishes and concerns of the students to the faculty.



broadcast interviews

the benefits of co-op and paid internship opportunities

UniversityWorks, Universities Canada, August 1, 2015

"Ready, willing and able to work thanks to co-op experience, Ryerson University student Matthew Tesfaldet says a co-op placement as a software designer will put him ahead of the curve when it comes time to find a job." - <http://www.universityworks.ca/en/#video/matthew-tesfaldet>