



Jason J. Yu



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<https://github.com/jasonyujyu>



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<https://scholar.google.com/citations?user=RaKQsQoAAAAJ>

Education

Doctor of Philosophy (PhD) in Computer Science (2020 - present)
Department of Electrical Engineering and Computer Science (EECS)
York University, Toronto, Canada

Master of Science (MSc) in Computer Science (2018 - 2020)
Department of Electrical Engineering and Computer Science (EECS)
York University, Toronto, Canada

Bachelor of Science (Honours) with Distinction in Computer Science (co-op) (2013 - 2018)
Department of Computer Science (SCS)
Ryerson University, Toronto, Canada

Publications

PolyOculus: Simultaneous Multi-view Image-based Novel View Synthesis

Jason J. Yu, Tristan Aumentado-Armstrong, Fereshteh Forghani, Konstantinos G. Derpanis, Marcus A. Brubaker

European Conference on Computer Vision (ECCV) 2024

Pre-print: <https://arxiv.org/abs/2402.17986>

Presented at: ECCV 2024

Long-Term Photometric Consistent Novel View Synthesis with Diffusion Models

Jason J. Yu, Fereshteh Forghani, Konstantinos G. Derpanis, Marcus A. Brubaker

International Conference on Computer Vision (ICCV) 2023

Pre-print: <https://arxiv.org/abs/2304.10700>

Presented at: ICCV 2023

Wavelet Flow: Fast Training of High Resolution Normalizing Flows

Jason J. Yu, Konstantinos G. Derpanis, Marcus A. Brubaker

Neural Information Processing Systems (NeurIPS) 2020

Pre-print: <https://arxiv.org/abs/2010.13821>

Presented at: NeurIPS 2020, ECCV 2020 NFs and INNs in CV tutorial, NeurIPS 2020 BLD workshop

Back to Basics: Unsupervised Learning of Optical Flow via Brightness Constancy and Motion Smoothness

Jason J. Yu, Adam W. Harley, Konstantinos G. Derpanis

Computer Vision - European Conference on Computer Vision (ECCV) 2016 Workshops, Part III, pp. 3-10, 2016

Pre-print: <https://arxiv.org/abs/1608.05842>

Presented at: ECCV 2016 Brave new ideas for motion representations in videos workshop

Honors and Awards

DND/NSERC supplemental funding award – Doctoral (CGS D)

York University, Toronto, Ontario, Canada, 2025 | \$10,000 CAD

The DND/NSERC supplemental funding award provides additional funding support for existing NSERC award holders to encourage highly advanced training and research in the natural sciences and engineering in research fields relevant to national defence for the benefit of Canada.

NSERC Canada Graduate Scholarship – Doctoral (CGS D)

York University, Toronto, Ontario, Canada, 2022 | \$63,000 CAD

The NSERC Canada Graduate Scholarships – Doctoral (CGS D) program provides financial support to high-calibre scholars who are engaged in an eligible doctoral program in the natural sciences or engineering. The financial support of this competitive national scholarship is distributed over three years.

Ontario Graduate Scholarship – (OGS) (Declined)

York University, Toronto, Ontario, Canada, 2022 | \$15,000 CAD

Merit-based scholarship at master's and doctoral level study in Ontario. Declined in favour of the NSERC CGS-D scholarship.

Vector Institute Postgraduate Affiliate Program

Vector Institute, Toronto, Ontario, Canada, 2021 | \$12,000 CAD

A two-year appointment awarded to graduate students and postdoctoral fellows representing universities and institutions across Ontario to support research in various areas in artificial intelligence.

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<https://scholar.google.com/citations?user=RaKQsQoAAAAJ>

York University Vista Doctoral Scholarship

York University, Toronto, Ontario, Canada, 2020 | \$20,000 CAD

Awarded to support high-caliber scholars doing research aligned with the interests of the Vision: Science to Applications (VISTA) program.

Mitacs Accelerate

Borealis AI and York University, Toronto, Ontario, Canada, 2019 | \$15,000 CAD

Funding to support a proposed project through an internship at a partner organization.

Ontario Graduate Scholarship (OGS)

York University, Toronto, Ontario, Canada, 2018 | \$15,000 CAD

Merit-based scholarship at master's and doctoral level study in Ontario.

York University Vista Master's Scholarship

York University, Toronto, Ontario, Canada, 2018 | \$20,000 CAD

Awarded to support high-caliber scholars doing research aligned with the interests of the Vision: Science to Applications (VISTA) program.

NSERC Undergraduate Student Research Award (USRA)

Ryerson University, Toronto, Ontario, Canada, 2018 | \$4,500 CAD

Mitacs RISE-Globalink Research Internship Award (RISE-Germany)

Ryerson University, Toronto, Ontario, Canada, 2017 | \$6,000 CAD

Awarded to support international research internships for undergraduate students at Canadian Universities.

NSERC Undergraduate Student Research Award (USRA)

Ryerson University, Toronto, Ontario, Canada, 2017 | \$4,500 CAD

Declined in favor of Mitacs RISE-Globalink Research Internship Award (see above).

Federation of Chinese Canadian Professionals Education Foundation Award

Ryerson University, Toronto, Ontario, Canada, 2016 | \$1,000 CAD

Awarded for academic excellence.

Ryerson Undergraduate Dean's List in Computer Science

Ryerson University, Toronto, Ontario, Canada, 2017, 2016, 2015, 2014

Maintained a GPA above 3.5 during the academic year.

Entrance Scholarship

Ryerson University, Toronto, Ontario, Canada, 2013

Awarded for entering Ryerson University with an average above 86%.

Ryerson Scholar

Ryerson University, Toronto, Ontario, Canada, 2013

Recognition for entering Ryerson University as an Ontario Scholar (average above 80%).

Experience

Research Intern

Samsung AI Center, Toronto, Ontario, Canada

June 2021 - September 2023

Researching computational photography methods for improving image quality.

Research Intern

Borealis AI, Toronto, Ontario, Canada

November 2019 - March 2020

Researched computer vision applications using deep-learning, under the supervision of Dr. Marcus Brubaker. Made possible through a Mitacs Accelerate Award.

Research Assistant

Ryerson University, Toronto, Ontario, Canada

May - August 2018

Researched computer vision applications using deep-learning, under the supervision of Dr. Konstantinos G. Derpanis.

Research Assistant

Technische Universität Darmstadt, Darmstadt, Hesse, Germany
May - August 2017

Researched computer vision applications using deep-learning, under the supervision of Dr. Stefan Roth.

Research Assistant

Ryerson University, Toronto, Ontario, Canada
May - August 2016

Researched computer vision applications using deep-learning, under the supervision of Dr. Konstantinos G. Derpanis.

Web Application Developer

Toronto District School Board, Toronto, Ontario, Canada
May - August 2014, May - August 2015

Developed Microsoft SharePoint based digital form system. The system included a digitization tool for converting existing paper forms, and a front end to guide users while completing the forms.

Additional Training

International Computer Vision Summer School (ICVSS)

Sicily, Italy, July 2018

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