

Paul Janson

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RESEARCH INTERESTS

My research interests lie at the intersection of machine learning and computer vision, with a particular focus on continual learning and meta-learning. I am passionate about developing adaptive algorithms that enhance the ability of models to learn continuously from new data without forgetting previously acquired knowledge. Additionally, I am interested in exploring innovative applications of these techniques in areas such as computer graphics, aiming to push the boundaries of what intelligent systems can achieve in visual computing.

EDUCATION

- **Concordia University** Montreal, Canada
Doctor of Philosophy - Computer Science *May 2024 - Present*
 - **Current GPA: 4.3/4.3** : Fast tracked from MS (Sep 2023 - May 2024)
- **University of Moratuwa** Moratuwa, Sri Lanka
Bachelor of Science in Computer Science and Engineering *Nov 2018 - Jun 2023*
 - **GPA: 3.95/4.2** First Class

PUBLICATIONS

- **Towards motion from video diffusion models :**
Accepted at ECCV 2024 Workshop Foundation Models for 3D Humans
Paul Janson, Tiberiu Popa, Eugene Belilovsky
- **Overcoming General Knowledge Loss with Selective Parameter Finetuning:**
Accepted at CVPR 2024 Conference track (view)
Wenxuan Zhang, **Paul Janson** , Rahaf Aljundi, Mohamed Elhoseiny
- **Continual zero-shot learning through semantically guided generative random walk:**
Accepted at ICCV 2023 Conference track (view)
Wenxuan Zhang, **Paul Janson** Divyansh Jha, Kai Yi, Ivan Skorodov, Mohamed Elhoseiny
- **Domain aware continual zero-shot learning:**
Accepted at ICCV 2023 Workshop on Out of domain generalization in Computer Vision (view)
Kai Yi, **Paul Janson**, Wenxuan Zhang, Mohamed Elhoseiny
- **A simple baseline that questions the use of pre-trained models in continual learning:**
Accepted at NeurIPS 2022 Workshop on Distribution Shifts (view)
Paul Janson, Wenxuan Zhang, Rahaf Aljundi, Mohamed Elhoseiny

RESEARCH EXPERIENCE

- **Concordia University** Montreal, Canada
Masters Project - Advisor: Dr.Eugene Belilovsky , Dr.Tiberiu Popa *Sep 2023 - Present*
 - **Towards motion from video diffusion models:** Worked on a score distillation based approach to extract animation for 3D assets from Video diffusion models.
- **University of Moratuwa** Moratuwa, Sri Lanka
Undergraduate Thesis - Advisor: Dr.Thanuja Ambegoda *Oct 2022 - Jul 2023*

- **Generalizing Neural fields using Meta learning:** Worked on a meta learning based approach that helps to generalize neural fields to be able to reconstruct 3D object with few views.

- **King Abdullah University of Science and Technology** Remote
External Collaborator - Advisors: Dr.Mohamed Elhoseiny, Dr Rahaf Aljundi *Jan 2022 - Sep 2023*
- **King Abdullah University of Science and Technology** Remote
Research Intern - Advisor: Dr.Mohamed Elhoseiny *Jan 2022 - Dec 2022*

TEACHING EXPERIENCE

- **Concordia University** Montreal, Canada
Teaching Assistant *Jan 2024 - Present*
 - **COMP371 Computer Graphics:**
Lab sessions, Grading, Office hours
- **University of Moratuwa** Moratuwa, Sri Lanka
Teaching Assistant *Aug 2022 - Jul 2023*
 - **CS3063 Theory of Computing:**
Grading , Quiz Preparation
 - **CS3613 Introduction to Artificial Intelligence :**
Grading

SCHOLARSHIPS AND AWARDS

- **Concordia International Tuition Award of Excellence (47,463 CAD):** 2024-2028
- **Concordia Graduate Split Award (28000 CAD):** 2023-2024
- **Concordia Merit Scholarship (5000 CAD):** 2023-2024
- **Appeared in Dean's honors list for 7 semesters :** 2018-2022
- **Mahapola Merit Scholarship for Undergraduate education (1000 CAD):** 2018-2022
- **Bank of Ceylon Nanajaya Scholarship (200 CAD) :** 2018-2022
- **POH Scholarship by Zagro Asia Limited, Singapore (2500 CAD) :** 2018-2022
- **Governors Award for best performance in GCE AL (3rd in the country) :** 2017

VOLUNTEERING AND PROFESSIONAL SERVICE

- **Reviewer for Conference :** CVPR 2023 , CVPR 2024 , ECCV 2024, PG 2024
- **Mentor at ScholarX by Sustainable Education Foundation:** 2024
- **Reviewer for Journal :** Computer Vision and Image Understanding 2023
- **Student representative for CSE department:** 2019-2020
- **Volunteer at Yarl IT hub non profit organization:** 2018-2023