

Vincent Cartillier

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EDUCATION

Georgia Institute of Technology

Ph.D. in Electrical and Computing Engineering. –GPA: 3.9

– Advisor: Irfan Essa

Atlanta, GA
Aug. 2017 –Aug. 2023

Georgia Institute of Technology

Master in Electrical and Computing Engineering. –GPA: 3.9

Atlanta, GA
Aug. 2014 –May 2017

Supelec Engineering School

Master in Robotics. –GPA: 3.5

Paris, France
Aug. 2012 –May 2015

University of Paris Sud Orsay

Bachelor of Science in Fundamental Physics.

Paris, France
Sept. 2013 –Jun. 2014

PUBLICATIONS

1. **Vincent Cartillier**, Grant Schindler, Irfan Essa, “SLAIM: Robust Dense Neural SLAM for Online Tracking and Mapping”, CVPR (NRI workshop) 2024
2. **Vincent Cartillier**, Neha Jain, Irfan Essa, “3D Semantic MapNet: Building Maps for Multi-Object Re-Identification in 3D”, arXiv 2023
3. Kristen Grauman, [...], **Vincent Cartillier**, et al, “Ego4D: Around the World in 3,000 Hours of Egocentric Video”, CVPR 2022
4. Samyak Datta, Sameer Dharur, **Vincent Cartillier**, Ruta Desai, Mukul Khanna, Dhruv Batra, Devi Parikh, “Episodic Memory Question Answering”, CVPR 2022
5. Oleksandr Maksymets, **Vincent Cartillier**, Aaron Gokaslan, Erik Wijmans, Wojciech Galuba, Stefan Lee, Dhruv Batra, “THDA: Treasure Hunt Data Augmentation for Semantic Navigation”, ICCV 2021
6. **Vincent Cartillier**, Zhile Ren, Neha Jain, Stefan Lee, Irfan Essa, Dhruv Batra, “Semantic MapNet: Building Allocentric Semantic Maps and Representations from Egocentric Views”, AAAI 2021
7. Huda Alamri, **Vincent Cartillier***, Abhishek Das, Jue Wang, Anoop Cherian, Irfan Essa, Dhruv Batra, Tim K. Marks, Chiori Hori, Peter Anderson, Stefan Lee, Devi Parikh, “Audio Visual Scene-Aware Dialog.”, Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2019
8. Chiori Hori, Huda Alamri, Jue Wang, Gordon Wichern, Takaaki Hori, Anoop Cherian, Tim K. Marks, **Vincent Cartillier**, Raphael Gontijo Lopes, Abhishek Das and Irfan Essa, “End-to-end audio visual scene-aware dialog using multimodal attention-based video features”, IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP 2019
9. Cusuh Ham, Amit Raj, **Vincent Cartillier**, Irfan Essa, “Variational image inpainting”, Advances in Neural Information Processing Systems Bayesian Deep Learning, NIPS 2018

10. Huda Alamri, **Vincent Cartillier**, Raphael Gontijo Lopes, Abhishek Das, Jue Wang, Irfan Essa, Dhruv Batra, Devi Parikh, Anoop Cherian, Tim K. Marks, Chiori Hori, “Audio visual scene-aware dialog (avsd) challenge at dstc7.”, AAAI 2018
11. Amit Raj, Cusuh Ham, Huda Alamri, **Vincent Cartillier**, Stefan Lee, and James Hays. “Compositional generation of images.”, Advances in Neural Information Processing Systems ViGIL, NIPS 2017

EXPERIENCE

PostDoc Researcher

Post doctoral research at GeorgiaTech - advisor: Judy Hoffman

Atlanta

Fall 2023 - Present

- Studying Exo-Ego video translation using diffusion models.

Research Intern

Research Intern at Facebook AI Research - host: Kristen Grauman

Remote

Summer 2021

- Studied the task of multi-object detection and re-ID in 3D.

Research Intern

Research Intern at Samsung Research America.

Mountain view, CA

Summer 2019

- Studied memory-based neural networks for indoor perception tasks.

Research Intern

Research Intern at Samsung Research America.

Mountain view, CA

Summer 2018

- Worked on object detection and depth estimation algorithms for indoor perception tasks.

Graduate Research Assistant

Graduate Research Assistant in the Civil Engineering Department at GeorgiaTech.

Atlanta, GA

Jan. 2016 –Aug. 2017

- Designed computer vision tools for road texture analysis.

Research Intern

Research Intern at General Electric Healthcare.

Paris, France

May 2015 –Nov. 2015

- Developed a new prediction model of ablation area for the percutaneous ablation of liver cancer on 3D images.

Research Intern

Research Intern at CNRS Astrophysics Research Institute.

Paris, France

Summer 2014

- Ran statistical analysis on MicrOmega hyperspectral camera calibration data (device onboard the Hayabusa-II spacecraft).

TEACHING

- **Head Teaching Assistant** at the Georgia Institute of Technology. Aug. 2019 –Aug. 2023
Computer Vision (OMSCS 6476)
- **Teaching Assistant** at the Georgia Institute of Technology. Aug. 2017 –May 2019
Computer Vision (OMSCS 6476)
- **Mentoring** at the Georgia Institute of Technology (Civil Engineering Dpt.). Aug. 2016 –May 2017
Team mentor for the Vertically Integrated Program: Smart City Infrastructure.