

CAO Anh Quan, Ph.D. Student

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🌐 <https://anhquanco.github.io/>

Education

2021 – Now	Ph.D., Inria/PSL Research University in Computer Vision Thesis: Unsupervised 3D scene understanding from image
2019 – 2020	M.Sc., Ecole Polytechnique in Artificial Intelligence and Advanced Visual Computing GPA: 3.99/4.0 (16.9/20) – rank (1 or 2)/10
2018 – 2019	M.Sc., Telecom Paris/University Paris-Saclay in Data Science GPA: 4.0/4.0 (17.1/20) – rank 1/30 (coursework), with honors
2017 – 2018	Master 1, University of Science and Technology of Hanoi in Computer Science GPA: 15.40/20 – rank 1/20
2013 – 2016	B.Sc., University of Science and Technology of Hanoi in Computer Science GPA: 16.1/20 – rank 1/40

Working experiences

2/2024 – 5/2024	Applied Scientist Intern. Amazon Topic: Improve CLIP fine-tuning on custom dataset using data generated from M-LLM. Supervisor: Maximilian Jaritz, Matthieu Guillaumin and Loris Bazzani.
9/2022 – 11/2022	Visiting Ph.D. Student. Technical University of Munich (TUM) Topic: Uncertainty estimation in 3D scene understanding Supervisor: Raoul de Charette, Angela Dai
2021 – Now	Ph.D. Student. Inria, Paris Thesis: Unsupervised 3D scene understanding from image Supervisor: Raoul de Charette
Summer 2020	Research Intern. Valeo.ai Topic: Cross-attention for partial point cloud registration Supervisors: Gilles Puy, Alexandre Boulch, Renaud Marlet
Summer 2019	Research Intern. Safran Topic: Analyze multivariate time series on sensor data of the helicopter engines Supervisors: Sin-seok Seo and Dohy Hong
3/2014 – 5/2018	Co-founder Color me (http://colorme.vn) - KEE education company Lead team of developers, develop ERP and online learning system. Teach several design courses
Summer 2016	Research Intern. LIPN, CNRS Speed up the distributed EM algorithm using Locality Sensitive Hashing Supervisor: Mustapha Lebbah

Publications

arXiv 2023	PaSCo: Urban 3D Panoptic Scene Completion with Uncertainty Awareness Project page: https://astra-vision.github.io/PaSCo/ <u>Anh-Quan Cao</u> , Angela Dai, and Raoul de Charette
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Publications (continued)

- ICCV 2023 **SceneRF: Self-Supervised Monocular 3D Scene Reconstruction with Radiance Fields**
Project page: <https://astra-vision.github.io/SceneRF/>
Anh-Quan Cao and Raoul de Charette
- BMVC 2022 **Class-Prototypes for Contrastive Learning in Weakly-Supervised 3D Point Cloud Segmentation**
Project page: <https://github.com/cv-rits/COARSE3D>
Rong Li, Anh-Quan Cao and Raoul de Charette
- CVPR 2022 **MonoScene: Monocular 3D Semantic Scene Completion**
Project page: <https://cv-rits.github.io/MonoScene>
Anh-Quan Cao and Raoul de Charette
- ICCV 2021 **PCAM: Product of Cross-Attention Matrices for Rigid Registration of Point Clouds**
Project page: <https://github.com/valeoai/PCAM>
Anh-Quan Cao, Gilles Puy, Alexandre Boulch and Renaud Marlet

Other research activities




- 2022 **Co-supervisor** of MSc. student: Rong Li
Vision and Sports Summer School. Prague, Czech Republic, <http://cmp.felk.cvut.cz/summerschool2022/index.html>
Guest Lecturer on 3D deep learning, MaSSP 2022 summer school (<https://en.masspvn.com/>)
Reviewer, WACV 2023 (3 papers), ACM MM (1 paper), CVPR 2023 (3 papers)
- 2021 **PRAIRIE AI summer school.** Online, <https://project.inria.fr/paiss/>

Scholarship / awards




- 2019 **Master scholarship**, 100% tuition fee and living expense from Google, Inria and Ecole Polytechnique
- 2017 **Erasmus Mundus Exchange Scholarship**, Université Sorbonne Paris Nord.
- 2016 **Top 5 Startup with colorme.vn**, Kawaii Bussiness Startup Competition - Japanese Embassy in Vietnam
Research Internship Prize, funding for student with the highest GPA to do internship in France, University of Science and Technology of Hanoi
- 2013 – 2016 **Scholarship for outstanding student**, University of Science and Technology of Hanoi

References


Dr. Raoul de Charette


 Researcher at Inria
 <https://cv-rits.github.io/>
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Dr. Gilles Puy

 Research scientist at Valeo.ai
 <https://sites.google.com/site/puygilles>
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Prof. Angela Dai


 Assistant professor at TUM


 <https://www.3dunderstanding.org/>


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 Visiting project supervisor

Prof. Renaud Marlet

 Senior researcher at ENPC

 <http://imagine.enpc.fr/~marletr/>

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