

SUMMARY — I am a Senior Research Scientist at United Imaging Intelligence (UII America). Prior to that, I received my PhD at IMAGINE team of École des Ponts ParisTech, advised by Prof. Vincent Lepetit. My research focuses on 3D computer vision and robotics.

EXPERIENCES

United Imaging Intelligence

Senior Research Scientist

Jun 2025 - Now

Burlington, MA, USA

Working on 3D computer vision and robotics for clinical AI products

Meta Reality Labs

Research Intern

Jun 2024 – Feb 2025

Zurich, Switzerland

Worked on generic 6D object tracking with Tomas Hodan

Meta Reality Labs

Research Intern

May 2022 – Oct 2022

Redmond, WA, USA

Worked on 3D object detection on Project Aria with Pierre Moulon

Siemens Mobility

Research Intern

Feb 2019 – Jul 2019

Parisian area, France

Worked on robust lane detection for self-driving vehicle with Karim Berkani

Neogia

Research Intern

Jul 2018 – Sep 2018

Paris, France

Worked on 3D face reconstruction from a single image with Mathieu Bouyrie

EDUCATION

Ecole des Ponts ParisTech

Ph.D. in Computer Vision, advised by Prof. Vincent Lepetit

Oct 2020 – Dec 2024

Parisian area, France

PhD thesis: Pose Estimation of Novel Rigid Objects

Visiting: Kyoto University (Mar–Apr 2024, with Prof. Ko Nishino)

Kyoto, Japan

EPFL (Jul–Aug 2021, with Mathieu Salzmann)

Lausanne, Switzerland

Ecole Normale Supérieure Paris-Saclay

Master of Science in Mathematics, Vision, Learning (MVA)

Sep 2019 – Sep 2020

Parisian area, France

Master thesis: Single view 3D scene reconstruction with Mathieu Aubry and Prof. Vincent Lepetit

Graduated with first-class honors (Mention “Très bien”)

INSA Toulouse

Master of Engineering in Applied Mathematics

Sep 2014 – Sep 2019

Major in Data Science (2016-2019)

Toulouse, France

Advanced Engineering Program in Mathematics & Physics (2014-2016)

Hue, Vietnam

PUBLICATIONS

First-author papers:

GoTrack: Generic 6DoF Object Tracking, CVPRW 2025

Van Nguyen Nguyen, Christian Forster, Sindi Shkodrani, Bugra Tekin, Cem Keskin, Tomas Hodan

BOP Challenge 2024 on Model-Based and Model-Free 6D Object Pose Estimation, CVPRW 2025

Van Nguyen Nguyen, Stephen Tyree, Andrew Guo, Mederic Fourmy, Anas Gouda, Taeyeop Lee, Sungphill Moon, Hyeontae Son, Lukas Ranftl, Jonathan Tremblay, Eric Brachmann, Bertram Drost, Vincent Lepetit, Carsten Rother, Stan Birchfield, Jiri Matas, Yann Labbe, Martin Sundermeyer, Tomas Hodan

GigaPose: Fast and Robust Novel Object Pose Estimation via One Correspondence, CVPR 2024

Van Nguyen Nguyen, Thibault Groueix, Mathieu Salzmann, Vincent Lepetit

NOPE: Novel Object Pose Estimation from a Single Image, CVPR 2024

Van Nguyen Nguyen, Thibault Groueix, Georgy Ponimatin, Yinlin Hu, Renaud Marlet, Mathieu Salzmann, Vincent Lepetit

CNOS: A Strong Baseline for CAD-based Novel Object Segmentation, ICCVW 2023

Van Nguyen Nguyen, Thibault Groueix, Vincent Lepetit, Tomas Hodan

PIZZA: A Powerful Image-only Zero-Shot Zero-CAD Approach to 6DoF Tracking, 3DV 2022 (Oral)

Van Nguyen Nguyen*, Yuming Du*, Yang Xiao, Michaël Ramamonjisoa, Vincent Lepetit

Templates for 3D Object Pose Estimation Revisited: New Objects and Occlusions, CVPR 2022

Van Nguyen Nguyen, Yinlin Hu, Yang Xiao, Mathieu Salzmann, Vincent Lepetit

Co-author papers:

CIF: Consistent Instance Field for Dynamic Scene Understanding, CVPR 2026

Junyi Wu, Van Nguyen Nguyen, Benjamin Planche, Jiachen Tao, Changchang Sun, Zhongpai Gao, Zhenghao Zhao, Anwesa Choudhuri, Gengyu Zhang, Meng Zheng, Feiran Wang, Terrence Chen, Yan Yan, Ziyang Wu

MedGRPO: Multi-Task Reinforcement Learning for Heterogeneous Medical Video Understanding, CVPR 2026

Yuhao Su, Anwesa Choudhuri, Zhongpai Gao, Benjamin Planche, Van Nguyen Nguyen, Meng Zheng, Yuhan Shen, Arun Innanje, Terrence Chen, Ehsan Elhamifar, Ziyang Wu

Universal Beta Splatting, ICLR 2026

Rong Liu, Zhongpai Gao, Benjamin Planche, Meida Chen, Van Nguyen Nguyen, Meng Zheng, Anwesa Choudhuri, Terrence Chen, Yue Wang, Andrew Feng, Ziyang Wu

OpenStreetView-5M: The Many Roads to Global Visual Geolocation, CVPR 2024

Guillaume Astruc, Nicolas Dufour, Ioannis Siglidis, Constantin Aronsson, Nacim Bouia, Stephanie Fu, Romain Loiseau, Van Nguyen Nguyen, Charles Raude, Elliot Vincent, Lintao Xu, Hongyu Zhou, Loic Landrieu

BOP Challenge 2023 on Detection, Segmentation and Pose Estimation, CVPRW 2024

Tomas Hodan, Martin Sundermeyer, Yann Labbe, Van Nguyen Nguyen, Gu Wang, Eric Brachmann, Bertram Drost, Vincent Lepetit, Carsten Rother, Jiri Matas

SERVICES

Reviewing: ICRA, IROS, RA-L, CVPR, ICCV, ECCV, NeurIPS, 3DV, ACCV, BMVC, TPAMI

Teaching: Image Processing and Artificial Vision (1st Master level) at ENPC, France in 2021, 2022

Workshop & Challenge:

- R6D Workshop: 9th edition at ECCV 2024 (link)
- BOP Challenges: 2025 edition (link), 2024 edition (link), 2023 edition (link)