VAN NGUYEN NGUYEN

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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 for clinical AI products.

EXPERIENCES

United Imaging Intelligence — **Jun 2025 - Now**
Senior Research Scientist — *Burlington (MA), USA*

- Research in 3D Computer Vision and Robotics for clinical AI products

Meta Reality Labs — **Jun 2024 – Feb 2025**
Research Intern — *Zurich, Switzerland*

- Worked on generic 6D object tracking with Tomáš Hodaň

Kyoto University — **Mar 2024 – Apr 2024**
Visiting PhD student, CVLab — *Kyoto, Japan*

- Worked on articulated object reconstruction with Prof. Ko Nishino

Meta Reality Labs — **May 2022 – Oct 2022**
Research Intern — *Redmond (WA), USA*

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

EPFL (Ecole Polytechnique Fédérale de Lausanne) — **Jul 2021 – Aug 2021**
Visiting PhD student, CVLab — *Lausanne, Switzerland*

- Worked on templates for 3D object pose estimation Mathieu Salzmann

Ecole des Ponts ParisTech — **Apr 2020 – Sep 2020**
Research Intern, IMAGINE team — *Parisian area, France*

- Worked on 3D scene reconstruction with Mathieu Aubry & Prof. Vincent Lepetit

Siemens Mobility — **Feb 2019 – Jul 2019**
Research Intern, Optiboard Team — *Parisian area, France*

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

Neogia — **Jul 2018 – Sep 2018**
Research Intern, Research and Development Team — *Paris, France*

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

EDUCATION

Ecole des Ponts ParisTech — **Oct 2020 – Dec 2024**
Ph.D. in Computer Vision, advised by Prof. Vincent Lepetit — *Parisian area, France*

- Research topics: 6D object pose estimation and tracking, 3D reconstruction for unseen objects

Ecole Normale Supérieure Paris-Saclay — **Sep 2019 – Sep 2020**
Master of Science in Mathematics, Vision, Learning (MVA) — *Parisian area, France*

- Graduated with first-class honors (Mention "Très bien")

INSA Toulouse — **Sep 2014 – Sep 2019**
Master of Engineering in Applied Mathematics — *Toulouse, France**

- Major in Data Science (*Location: 2014-2016 in Vietnam and 2016-2019 in France)

PUBLICATIONS

First-author papers:

BOP Challenge 2024 on Model-Based and Model-Free 6D Object Pose Estimation, CVPRW 2025
Van Nguyen Nguyen, Stephen Tyree, Andrew Guo, Médéric Fourmy, Anas Gouda, Taeyeop Lee, Sungphill Moon, Hyeontae Son, Lukas Ranftl, Jonathan Tremblay, Eric Brachmann, Bertram Drost, Vincent Lepetit, Carsten Rother, Stan Birchfield, Jiří Matas, Yann Labbé, Martin Sundermeyer, Tomas Hodan

GoTrack: Generic 6DoF Object Tracking, CVPRW 2025
Van Nguyen Nguyen, Christian Forster, Sindi Shkodrani, Bugra Tekin, Cem Keskin, 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 Ponimatkin, 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:

OpenStreetView-5M: The Many Roads to Global Visual Geolocation, CVPR 2024
G.Astruc, N.Dufour, I.Siglidis, C.Aronssohn, N.Bouia, S.Fu, R.Loiseau, V.N. Nguyen, C.Raude, E. Vincent, L.Xu, H.Zhou, L.Landrieu

BOP Challenge 2023 on Detection, Segmentation and Pose Estimation, CVPRW 2024
T.Hodan, M.Sundermeyer, Y.Labbé, V.N. Nguyen, G. Wang, E.Brachmann, B.Drost, V.Lepetit, C.Rother, J.Matas

REVIEWING

- Computer Vision and Pattern Recognition (**CVPR**): 2022, 2023, 2024, 2025
- International Conference on Computer Vision (**ICCV**): 2023, 2025
- European Conference on Computer Vision (**ECCV**): 2022, 2024
- Neural Information Processing Systems (**NeurIPS**): 2024, 2025
- International Conference on Intelligent Robots and Systems (**IROS**): 2024, 2025
- Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**): 2022
- International Conference on 3D Vision (**3DV**): 2024
- Asian Conference on Computer Vision (**ACCV**): 2024
- British Machine Vision Conference (**BMVC**): 2021

OTHER SERVICES

- **Teaching**: Image Processing and Artificial Vision (1st Master level) in 2021, 2022
- **Challenges**: Benchmark on 6D Object Pose Estimation, bop.felk.cvut.cz
- **Workshops**: Recovering 6D object pose (ECCV 2024), cmp.felk.cvut.cz/sixd/workshop_2024

LANGUAGES

English: Fluent **French:** Fluent **Vietnamese:** Native