

VAN NGUYEN NGUYEN

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SUMMARY — I recently completed my PhD at [IMAGINE team](#) of École des Ponts ParisTech, advised by [Prof. Vincent Lepetit](#). During the PhD, my research focused on scalable 6D object detection, 3D reconstruction. I have been fortunate enough to intern twice at Meta Reality Labs working with [Dr. Tomáš Hodaň](#) in 2024 and with [Dr. Pierre Moulon](#) in 2022. I am also a co-organizer of [BOP challenge 2024](#).

RESEARCH EXPERIENCE

Meta Reality Labs

Research Intern

Jun 2024 – Feb 2025

Zurich, Switzerland

- Subject: Generic 6D object tracking
- Advisors: [Dr. Tomáš Hodaň](#) & [Dr. Christian Forster](#)

Kyoto University

Visiting PhD student, CVLab

Mar 2024 – Apr 2024

Kyoto, Japan

- Subject: Articulated object reconstruction
- Advisor: [Prof. Ko Nishino](#)

Meta Reality Labs

Research Intern

May 2022 – Oct 2022

Redmond (WA), USA

- Subject: 3D object detection on [Project Aria](#)
- Advisor: [Dr. Pierre Moulon](#)

EPFL (Ecole Polytechnique Fédérale de Lausanne)

Visiting PhD student, CVLab

Jul 2021 – Aug 2021

Lausanne, Switzerland

- Subject: Templates for 3D object pose estimation (CVPR 2022)
- Advisor: [Dr. Mathieu Salzmann](#)

Ecole des Ponts ParisTech

Research Intern, IMAGINE team

Apr 2020 – Sep 2020

Parisian area, France

- Subject: 3D scene reconstruction using implicit functions
- Advisors: [Dr. Mathieu Aubry](#) & [Prof. Vincent Lepetit](#)

Siemens Mobility

Research Intern, Optiboard Team

Feb 2019 – Jul 2019

Parisian area, France

- Subject: Robust lane detection for self-driving vehicle
- Advisors: [Dr. Karim Berkani](#)

Neogia

Research Intern, Research and Development Team

Jul 2018 – Sep 2018

Paris, France

- Subject: 3D face reconstruction from a single image
- Advisors: [Dr. Mathieu Bouyrie](#)

EDUCATION

Ecole des Ponts ParisTech

Ph.D. in Computer Vision, advised by [Prof. Vincent Lepetit](#)

Oct 2020 – Dec 2024

Parisian area, France

- Research topics: 6D object pose estimation and tracking, 3D reconstruction for unseen objects
- Reviewers: [Prof. Markus Vincze](#), [Dr. Benjamin Busam](#)
- Examiners: [Prof. Josef Sivic](#), [Prof. Dima Damen](#), [Dr. Slobodan Ilic](#)

Ecole Normale Supérieure Paris-Saclay

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

Sep 2019 – Sep 2020

Parisian area, France

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

INSA Toulouse

Master of Engineering in Applied Mathematics

Sep 2014 – Sep 2019

*Toulouse, France**

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

PUBLICATIONS

First-author papers:

GoTrack: Generic 6DoF Object Tracking, In submission

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

Best method for 2D detection/segmentation of novel objects at BOP challenge 2023, R6D Workshop

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:

MaGIC-GS: Monocular Articulated GeneriC object reconstruction with Gaussian Splatting, In Submission

Arslan Artykov, Antoine Guedon, Clémentin Boitiaux, Van Nguyen Nguyen, Vincent Lepetit

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

G.Astruc, N.Dufour, I.Siglidis, C.Aronsohn, 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
- European Conference on Computer Vision (ECCV): 2022, 2024
- Neural Information Processing Systems (NeurIPS): 2024
- International Conference on Intelligent Robots and Systems (IROS): 2024
- 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

REFERENCES

- **Prof. Vincent Lepetit (ENPC, France):** vincent.lepetit@enpc.fr
- **Dr. Mathieu Salzmann (EPFL, Switzerland):** mathieu.salzmann@epfl.ch
- **Dr. Thibault Groueix (Adobe, USA):** groueix@adobe.com