

Georgy Ponimatkin

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INFORMATION GitHub: <https://github.com/ponimatkin>

EMPLOYMENT **Czech Institute of Informatics, Robotics and Cybernetics,**
HISTORY **Czech Technical University in Prague**
Prague, Czech Republic
Junior Researcher (PI Josef Sivic), January 2024 -

- Research on application of Vision-Language Models for robotics

LIGM IMAGINE, École des Ponts ParisTech
Paris, France
Junior Researcher (PI Vincent Lepetit), July 2021 - December 2023

- Research in 3D computer vision

Czech Institute of Informatics, Robotics and Cybernetics,
Czech Technical University in Prague
Prague, Czech Republic
Junior Researcher (PI Josef Sivic), March 2020 - June 2021

- Research in 3D computer vision

Nuclear Physics Institute, Czech Academy of Sciences
Prague, Czech Republic
Research Associate, March 2018 - June 2021

- Large-scale analysis of the particle physics data produced by the STAR experiment at RHIC
- Development of machine learning based algorithms for physics data analysis

EDUCATION **Czech Technical University in Prague**
Czech Institute of Informatics, Robotics and Cybernetics,
Prague, Czech Republic
Doctor of Philosophy, (2024-), Computer Vision and Robotics

Czech Technical University in Prague, FNSPE,
Prague, Czech Republic
Master of Science (2019-2021), Experimental Particle and Nuclear Physics

Czech Technical University in Prague, FNSPE,
Prague, Czech Republic
Bachelor of Science (2016-2019), Experimental Particle and Nuclear Physics

Publications List

- 6D Object Pose Tracking in Internet Videos for Robotic Manipulation
G. Ponimatkin*, M. Cifka*, T. Soucek, M. Fourmy, Y. Labbé, V. Petrik, J. Sivic. **ICLR 2025**.
- FocalPose++: Focal Length and Object Pose Estimation via Render and Compare
M. Cifka*, **G. Ponimatkin***, Y. Labbé, B. Russell, M. Aubry, V. Petrik, J. Sivic. **IEEE TPAMI 2024**.
- Nope: Novel object pose estimation from a single image
V. N. Nguyen, T. Groueix, **Georgy Ponimatkin**, Y. Hu, R. Marlet, M. Salzmann, V. Lepetit. **CVPR 2024**.
- A Simple and Powerful Global Optimization for Unsupervised Video Object Segmentation
G. Ponimatkin, N. Samet, Y. Xiao, Y. Du, R. Marlet, V. Lepetit. **WACV 2023**.
- CNOS: A Strong Baseline for CAD-based Novel Object Segmentation
V. N. Nguyen, T. Groueix, **G. Ponimatkin**, V. Lepetit, T. Hodan. **ICCV 2023 R6D Workshop**.
- You Never Get a Second Chance To Make a Good First Impression: Seeding Active Learning for 3D Semantic Segmentation
N. Samet, O. Siméoni, G. Puy, **G. Ponimatkin**, R. Marlet, V. Lepetit. **ICCV 2023**.
- Focal length and object pose estimation via render and compare
G. Ponimatkin, Y. Labbe, B. Russell, M. Aubry, J. Sivic. **CVPR 2022**.
- Identifying Heavy-Flavor Jets Using Vectors of Locally Aggregated Descriptors.
J. Bielčíková, R. K. Elayavalli, **G. Ponimatkin**, J. H. Putschke, J. Šivic. **JINST 16 (2021) 03, P03017**.