

# Curriculum Vitae

Jeongwan On



**Jeongwan On ( 온정완 )**

*Bachelor Student*

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🐙 GitHub Profile

🏠 Homepage

## Research Interest

- Vision-Language Model, 3D Pose Estimation/Mesh Reconstruction

## Education

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|-------------------|---|------------------|
| 23. Mar - 23. Jul | <b>Ulsan National Institute of Science and Technology (UNIST)</b><br><i>Exchange Student</i><br>Department of Mathematical Sciences | GPA : 4.0 / 4.3  |
| 18. Mar - present | <b>Chonnam National University, Gwangju, Korea</b><br><i>Bachelor Student</i><br>Department of Statistics                           | GPA : 3.99 / 4.5 |

## Experience

|                    |   |                  |
|--------------------|---|------------------|
| 23. Mar - 23. Sep. | <b>Vision and Learning Lab (UVLL)</b><br><i>Research Intern</i><br>3D Reconstruction / Hand pose estimation<br>Transformer based object detection                   | 📍 UNIST          |
| 22. Sep - 22. Dec  | <b>Euclidsoft</b><br><i>Internship at Development team (Received Excellence Internship Award)</i><br>Model optimization (TensorRT, CUDA Stream)<br>Object detection | 📍 Daejeon, Korea |

## Publications

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|-----------------------|---|
| <b>ECCV</b><br>2024   | Z. Fan, T. Ohkawa, L. Yang, N. Lin, Z. Zhou, S. Zhou, J. Liang, Z. Gao, X. Zhang, X. Zhang, F. Li, L. Zheng, F. Lu, K. Zeid, B. Leibe, <b>J. On</b> , S. Baek, A. Prakash, S. Gupta, K. He, Y. Sato, O. Hilliges, H. Chang, A. Yao, "EgoHANDS: benchmarks and challenges for egocentric hand pose estimation under hand-object interaction". In European Conference on Computer Vision ( <b>ECCV</b> ), 2024. (Submitted) |
| <b>ICASSP</b><br>2024 | J. Kim, S. Hong, C. Kim, J. Kim, Y. Tiruneh, <b>J. On</b> , J. Song, S. Choi, and S. Baek, "Class-Wise Buffer Management for Incremental Object Detection: An Effective Buffer Training Strategy" in International Conference on Acoustics, Speech, and Signal Processing ( <b>ICASSP</b> ), 2024   |
| <b>IEIE</b><br>2023   | J. Cha, J. Kim, S. Choi, <b>J. On</b> and S. Beak, "단안 비디오를 활용한 객체의 3D 바운딩 박스 추정 및 속력 계산, 움직임 예측" in Autumn Annual Conference of IEIE, 2023   |

IEIE  
2023

J. Kim, S. Hong, J. Kim, **J. On**, C. Kim, Y. Tiruneh, J. Song, S. Choi, S. Beak, "Reducing data imbalancing for Object Detection" in Summer Annual Conference of IEIE, 2023

## Honors and Awards

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|------------------|---|
| <b>2023. Oct</b> | <b>3rd place at 2023 ICCV hand challenge (Consistent Motion Reconstruction)</b> |
| 2023. Sep        | 디지털 신기술을 활용한 지역 문제해결 아이디어 공모전 최우수상, 광주정보문화산업진흥원                                 |
| 2022. Dec        | [ABC Internship] ICT 학점연계 프로젝트 인턴십 우수 인턴상, (주)유클리드소프트                           |
| 2022. Oct        | [2022 통계학과 빅데이터 경진대회 1등, Chonnam National University, Korea                     |
| 2021. Oct        | 2022 통계학과 빅데이터 경진대회 3등, Chonnam National University, Korea                      |

## Projects

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| 23. Mar - present  | "Development of Vision Recognition Module for ARTG Control", Ministry of Oceans and Fisheries <ul style="list-style-type: none"><li>• <b>Development of Driving Autosteering Algorithm and Module</b> through Vision part</li></ul>  |
| 22. Aug - 23. Aug. | "Expanding Data Coverage through Incremental Learning and Development Integrated Domain Recognition Systems", LG Electronics <ul style="list-style-type: none"><li>• <b>Conversion from pytorch model to tflite</b> for edge device</li><li>• Development of <b>Object Detection</b> algorithm</li></ul> |

## Open Source

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|--|---|
| <b>onnx2tf</b><br><i>Contributor<br/>&amp; Sponsor</i> | "Self-Created Tools to convert ONNX files (NCHW) to TensorFlow/TFLite/Keras format (NHWC)" <ul style="list-style-type: none"><li>• <b>Add a new parameter</b> called <code>--custom_input_op_name_np_data_path(cind)</code>, in PR #296</li><li>• <b>Add additional information</b> about the <code>-cind</code> option to the README, in PR #307</li><li>• <b>Raise some issues</b>, in Issue #275, #282, #290, #308</li></ul> |
| <b>nobuco</b><br><i>Contributor</i>                    | "Pytorch to Tensorflow conversion made somewhat easy." <ul style="list-style-type: none"><li>• <b>Add the sin and cos operators</b>, in PR #5</li><li>• <b>Add new implementation</b> of the prelu, in PR #7</li></ul>  |