

# Yunhan Wang

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## Education

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### University of Tübingen

*MSc Machine Learning*

- Specialize in 3D vision and machine learning.

**Tübingen, Germany**

*Expected Jul 2025*

### Delft University of Technology

*BSc Computer Science and Engineering (Honours & Cum Laude)*

- Cumulative GPA: 8.7 (top 5%).
- Minor in Mathematics & Finance: GPA 9.0.

**Delft, Netherlands**

*Sep 2020 - Jul 2023*

## Research Experience

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### Computer Vision Lab, TU Delft

*Undergraduate Researcher; Advisor: Dr. Xucong Zhang.*

- Researched multi-view Bayesian gaze estimation methods.
- Investigated vital factors that can boost gaze estimation performance. Developed state-of-the-art gaze estimation models in PyTorch.
- Contributed to GazeTech, an open-source gaze estimation framework.
- Research conducted in collaboration with Dr. Shalini De Mello from NVIDIA Research and Dr. Hyung Jin Chang from the University of Birmingham.

**Delft, Netherlands**

*May 2022 - Aug 2023*

*Thesis Student; Advisor: Prof. Jan van Gemert.*

- Researched Efficient Temporal Action Localization via Vision-Language Modelling.
- Subsequent research work has been accepted by the 2023 International Conference on Computer Vision (ICCV), Workshop on AI for Creative Video Editing and Understanding.

*April-Aug 2023*

## Work Experience

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### Scenwise

*Software Data Engineering Intern*

- Developed a backend framework to extract and geolocalize data from social media channels to analyze crowd behaviors using computer vision and natural language processing methods.
- Developed a crowd counting and object detection tool to analyze crowd behaviors from public camera recordings
- Utilized the system to reduce city managers' crowd-managing efforts on a city-wide scale and the costs associated with collecting data from government physical sensors.
- Tech stacks: GeoPy, GeoPandas, OpenCV, NumPy, Spring Boot, PostGIS, and Docker.

**The Hague, Netherlands**

*April-June 2022*

### CS Department, TU Delft

*Teaching Assistant*

- Assisted *Algorithms and Data Structures*, *Big Data Processing*, and *Capstone AI Project*.
- Supervised student groups in developing AI-centered research projects proposed by academic staff.
- Assisted lecturers with course development to promote a positive learning environment.
- Helped students retain course knowledge using personalized teaching methods.

**Delft, Netherlands**

*Sep 2022 - Feb 2023*

# Skills

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**Programming:** Python, Java, Scala, SQL, C++, Unix, and R.  
**DS/ML stacks:** PyTorch, NumPy, Spark, Flink, Scikit-learn, Pandas, and OpenCV.  
**Mathematics:** Stochastic Calculus and Processes, Monte Carlo methods, Numerical methods, and Time Series.

# Publication

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**Investigation of Architectures and Receptive Fields for Appearance-based Gaze Estimation**  
**Yunhan Wang**, Xiangwei Shi, Shalini De Mello, Hyung Jin Chang, Xucong Zhang. Preprint, 2023.

**Benchmarking Data Efficiency and Computational Efficiency of Temporal Action Localization Models**  
Jan Warchocki\*, Teodor Oprescu\*, **Yunhan Wang\***, Alexandru Damacus, Paul Misterka, Robert-Jan Brintjes, Attila Lengyel, Ombretta Strafforello, Jan van Gemert. International Conference on Computer Vision, Workshop on AI for Creative Video Editing and Understanding, 2023.

( \* denotes equal contribution)