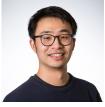
Zimin Xia

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RESEARCH Visual Localization, Ground-to-Aerial Image Matching, 3D Computer Vi-**INTERESTS** sion, Representation Learning, Self-Supervised Learning, Environment Perception for Autonomous Driving **Delft University of Technology**, The Netherlands Oct. 2019 - (EXP) Jan. 2024 **EDUCATION** Ph.D. student, topic: Efficient Deep Learning for Robot Localization Supervisors: Prof. Julian F. P. Kooij, Prof. Dariu M. Gavrila Collaborate with TomTom, Amsterdam, The Netherlands Dutch Research Council funded project: Efficient Deep Learning Oct. 2016 - Jul. 2019 University of Stuttgart, Germany Master of Science, Geomatics Engineering Master Thesis at Carl Zeiss AG, Germany: Stereo Reconstruction of Human Faces with Deep Learning Wuhan University, China Sep. 2012 - Jun. 2016 Bachelor of Science, Geodesv and Geomatics Engineering SELECTED **Convolutional Cross-View Pose Estimation** PUBLICATIONS Zimin Xia, Olaf Booij, Julian F. P. Kooij (Accepted by IEEE Transactions on Pattern Analysis and Machine Intelligence) Linked to: Paper, Code SliceMatch: Geometry-guided Aggregation for Cross-View Pose Estimation Ted Lentsch*, Zimin Xia*, Holger Caesar, Julian F. P. Kooij *: Equal contribution Conference on Computer Vision and Pattern Recognition (CVPR), 2023 Linked to: Paper, Code, Video Visual Cross-View Metric Localization with Dense Uncertainty Estimates Zimin Xia, Olaf Booij, Marco Manfredi, Julian F. P. Kooij European Conference on Computer Vision (ECCV), 2022 Linked to: Paper, Code, Video Cross-View Matching for Vehicle Localization by Learning Geographically Local Representations Zimin Xia, Olaf Booij, Marco Manfredi, Julian F. P. Kooij IEEE Robotics and Automation Letters (IEEE RA-L), 2021 Linked to: Paper, Code, Video Geographically Local Representation Learning with a Spatial Prior for Visual Localization Zimin Xia, Olaf Booij, Marco Manfredi, Julian F. P. Kooij European Conference on Computer Vision (ECCV), 2020, Workshop on Map-based

European Conference on Computer Vision (ECCV), 2020, Workshop on Map-based Localization for Autonomous Driving, Oral Presentation Linked to: Paper, Code, Video

| ACADEMIC ACTIVITIES | Attended International Computer Vision Summer School (ICVSS) 2022 | |
|------------------------|--|----------------------------|
| | Reviewer for T-PAMI, CVPR, T-RO, RA-L, ICRA, IV | |
| TEACHING ASSISTANT | Machine Learning for Robotics 3D Robot Vision | 2020 - 2023 2020 - 2021 |
| ASSISTANT | Intelligent Vehicles | 2020 - 2021 2019 - 2020 |
| MSC THESIS | Cross-View Camera Pose Estimation By Matching Local Features in 3D | |
| SUPERVISION | Sviatoslav Voloshyn | Oct. 2022 - Aug. 2023 |
| | Improving Cross-View Matching with Self-Supervised Learning | |
| | Jianfeng Cui | Jan. 2022 - Jan. 2023 |
| | SliceNet: Street-to-Satellite Image Metric Localization using Local Feature Matching | |
| | Ted de Vries Lentsch | Nov. 2021 - Oct. 2022 |
| LANGUAGE | English : Professional proficiency German : Elementary proficiency Chinese : Native | |
| HOBBIES | In my free time, I enjoy reading and doing sports. I am passionate about playing basketball and swimming. During my high school years in China, I was a national second-grade swimmer. | |