




# Yujiao Shi, The Australian National University

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115 North Rd, Canberra, Australia, ACT 2601

## Education

- 2018 – Now     **Ph.D., Australian National University, Canberra, Australia.**  
Research topic: *Satellite image based geo-localization, Novel view synthesis.*  
Supervisor: Prof. Hongdong Li, Dr. Xin Yu, Dr. Dylan Campbell.
- 2014 – 2017     **M.S., Nanjing University of Posts and Telecommunications, Nanjing, China.**  
Research topic: *Evolutionary computation.*  
Supervisor: Prof. Hao Gao
- 2010 – 2014     **B.S., Nanjing University of Posts and Telecommunications, Nanjing, China.**  
Major: *Automation.*

## Research Communications

- 2022 Jan – Now     **Facebook Reality Lab.**  
Research topic: burst image super-resolution.

## Research Publications


### Journal Articles

- 1    **Shi, Yujiao**, Campbell, Dylan, Yu, Xin, & Li, Hongdong. (2022). Geometry-guided street-view panorama synthesis from satellite imagery. *IEEE TPAMI*.
- 2    **Shi, Yujiao**, Yu, Xin, Liu, Liu, Campbell, Dylan, Koniusz, Piotr, & Li, Hongdong. (2022). Accurate 3-dof camera geo-localization via ground-to-satellite image matching. *IEEE TPAMI*.

### Conference Proceedings



- 1    **Shi, Yujiao** & Li, Hongdong. (2022). Beyond cross-view image retrieval: highly accurate vehicle localization using satellite image. In *CVPR 2022*.
- 2    **Shi, Yujiao**, Li, Hongdong, & Yu, Xin. (2021). Self-supervised visibility learning for novel view synthesis. In *CVPR 2021*.
- 3    **Shi, Yujiao**, Yu, Xin, Campbell, Dylan, & Li, Hongdong. (2020). Where am i looking at? joint location and orientation estimation by cross-view matching. In *CVPR 2020*.
- 4    **Shi, Yujiao**, Yu, Xin, Liu, Liu, Zhang, Tong, & Li, Hongdong. (2020). Optimal feature transport for cross-view image geo-localization. In *AAAI, 2020*.
- 5    **Shi, Yujiao**, Liu, Liu, Yu, Xin, & Li, Hongdong. (2019). Spatial-aware feature aggregation for image based cross-view geo-localization. In *NeurIPS 2019*.

## Skills

Programming     Python, Matlab, Tensorflow, Pytorch.









## Research Projects

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- 2018 – 2019     **Spatial CCTV:** City 3D modeling, object detection, and model & video registration.
-  **AUW navigation:** Image-based geo-localization and way-finding.



## Awards

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- 2021     CVPR 2021 Outstanding Reviewer
- 2018     ANU ACRV Top-Up Scholarship
- 2016     Post-graduate First-class Scholarship  
Outstanding Post-graduate Scholarship
- 2015     Post-graduate First-class Scholarship  
Outstanding Post-graduate Scholarship
- 2014     Post-graduate First-class Scholarship
- 2013     Under-graduate Second-class Scholarship
- 2012     Under-graduate First-class Scholarship  
“Three Good” Student Model Scholarship
- 2011     Under-graduate Second-class Scholarship  
“Three Good” Student Scholarship

## Teaching Experience

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- 2019 – 2021     **Teaching assistant:** Computer Vision (ENGN4528 / 6528), Research school of CECS, Australian National University.
- 2015 – 2016     **Teaching assistant:** Artificial Intelligence, College of Automation, Nanjing University of Posts and Telecommunications.