

YUXIAO QIN

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RESEARCH INTERESTS

- Statistical signal/image processing;
- Data processing, and algorithms development for (In)SAR;
- SAR interferometric processing, and multi-temporal time series analysis;
- Providing monitoring solutions with remote sensing data, especially using InSAR technique.

EDUCATION

- 2014 - 2018 **Ph.D. Civil Engineering**, Purdue University, USA
Area: *Sentinel-1 interferometric processing: algorithms and applications*
Thesis: *Sentinel-1 Wide Swath Interferometry: Processing Techniques and Applications*
- 2015 - 2017 **M.Sc. Electrical and Computer Engineering**, Purdue University, USA
Area: *Area: communications, networking, digital signal and image processing*
- 2010 - 2011 **M.Sc. Earth System Science**, the Chinese University of Hong Kong, Hong Kong, China
- 2006 - 2010 **B.Sc. Remote Sensing and GIS**, Peking University, Beijing, China

WORK & RESEARCH

- 2020 - **Associate Professor**, School of Electronics and Information
Northwestern Polytechnical University, Xi'an, Shaanxi, China
- 2018 - 2020 **Lead InSAR Engineer**, SkyGeo Netherlands B.V., Delft, the Netherlands

SOCIAL ACTIVITIES

- 2007 - 2010 **President and member of council**, Cycling Association of Peking University (CAPU)
- 2011 - 2013 **Member of council**, Peking University Alumni Association Hong Kong

PEER REVIEWED JOURNALS

- [1] Y. Qin, E. Hoppe, and D. Perissin, "Slope hazard monitoring using high-resolution satellite remote sensing: Lessons learned from a case study," *ISPRS International Journal of Geo-Information*, vol. 9, p. 131, feb 2020.
- [2] Y. Qin, D. Perissin, and J. Bai, "Investigations on the Coregistration of Sentinel-1 TOPS with the Conventional Cross-Correlation Technique," *Remote Sensing*, vol. 10, p. 1405, Sept. 2018.
- [3] Y. Qin, D. Perissin, and J. Bai, "A Common Stripmap-Like Interferometric Processing Chain for TOPS and ScanSAR Wide Swath Mode," *Remote Sensing*, vol. 10, p. 1504, Sept. 2018.
- [4] Y. Qin and D. Perissin, "Monitoring Ground Subsidence in Hong Kong via Spaceborne Radar: Experiments and Validation," *Remote Sensing*, vol. 7, pp. 10715–10736, Aug. 2015.

- [5] Y. Qin, D. Perissin, and L. Lei, "The design and experiments on corner reflectors for urban ground deformation monitoring in hong kong," *International Journal of Antennas and Propagation*, vol. 2013, pp. 1–8, 2013.

THESIS

- [1] Yuxiao Qin, *Sentinel-1 Wide Swath Interferometry: Processing Techniques and Applications*. PhD thesis, Purdue University, 2019.

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