

# Xuesong Niu

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## Education Background

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- 2016.09 - present, **Ph.D. candidate**, Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS).
- 2012.09 - 2016.07, **B.E.**, Nankai University.

## Publications

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1. **Xuesong Niu\***, Xingyuan Zhao\*, Hu Han, Abhijit Das, Antitza Dantcheva, Shiguang Shan, Xilin Chen. "Robust Remote Heart Rate Estimation from Face Utilizing Spatial-temporal Attention." IEEE International Conference on Automatic Face and Gesture Recognition (FG), Lille, France, 2019.
2. **Xuesong Niu**, Hu Han, Songfan Yang, Yan Huang, Shiguang Shan. "Local Relationship Learning with Person-specific Regularization for Facial Action Unit Detection." IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Long Beach, CA, USA, 2019.
3. **Xuesong Niu**, Hu Han, Shiguang Shan, Xilin Chen. "VIPL-HR: A Multi-modal Database for Pulse Estimation from Less-constrained Face Video." Asian Conference on Computer Vision (ACCV), Perth Western Australia, 2018.
4. **Xuesong Niu**, Hu Han, Jiabei Zeng, Xuran Sun, Shiguang Shan, Yan Huang, Songfan Yang, Xilin Chen. "Automatic Engagement Prediction with GAP Feature." ACM International Conference on Multimodal Interaction (ICMI), Boulder, CO, USA, 2018.
5. **Xuesong Niu**, Hu Han, Shiguang Shan, Xilin Chen. "SynRhythm: Learning a Deep Heart Rate Estimator from General to Specific." International Conference on Pattern Recognition (ICPR), Beijing, China, 2018.
6. **Xuesong Niu**, Hu Han, Shiguang Shan, Xilin Chen. "Continuous Heart Rate Measurement from Face: A Robust rPPG Approach with Distribution Learning." International Joint Conference on Biometrics (IJCB), 2017.

## Awards & Honors

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1. Second Runner-up in EmotiW Student Engagement Prediction Challenge, 2018
2. Travel Grant in IEEE FG Doctoral Consortium, 2018
3. Excellence Scholarship of ICT, ICT, 2018
4. Zhou Enlai Scholarship (Highest award in Nankai University), Nankai University, 2016
5. Baogang Scholarship, 2016
6. China National Scholarship, Nankai University, 2014