

Songyou Peng

Contact Information	Advanced Digital Sciences Center No. 1 Create Way, Singapore 138602	Phone: (+65) 9014 9675 E-mail: songyou.peng@adsc.com.sg
Education	Erasmus Mundus Master in Vision and Robotics (VIBOT) Heriot-Watt University – Universitat de Girona – Université de Bourgogne GPA: 17/20 (rank 3/23)	09/2015-09/2017
	Xi'an Jiaotong University (XJTU) B.Eng in Automation, focus: Information processing and artificial intelligence Cumulative GPA: 83.6/100, Major GPA: 87.4/100	09/2011-06/2015
Publication	<ul style="list-style-type: none">Songyou Peng, Bjoern Haefner, Yvain Quéau, Daniel Cremers. <i>Depth Super-Resolution Meets Uncalibrated Photometric Stereo</i>. In International Conference on Computer Vision (ICCV) Workshop, 2017. [Paper] [Code]	
Experience	Research Engineer <i>Advanced Digital Sciences Center, University of Illinois at Urbana-Champaign, Singapore</i> <ul style="list-style-type: none">Develop an end-to-end trainable and deep Siamese-like network <i>PERNet</i> to jointly recognize personality and emotion from visual cues and find the emotion-personality relationship Supervisor: Dr. Stefan Winkler, IEEE Fellow	01/2018-Present
	Research Intern <i>Technische Universität München (TUM), Munich, Germany</i> <ul style="list-style-type: none">Master thesis: High Quality Shape from an RGB-D Camera using Photometric Stereo [PDF] Supervisor: Prof. Daniel Cremers <ul style="list-style-type: none">Proposed a new PDE-based photometric stereo regularizer to disambiguate depth super-resolutionOutperformed the state-of-the-art depth refinement and depth super-resolution methods	02/2017-07/2017
	Summer Research Intern <i>INRIA Rhône-Alpes, Grenoble, France</i> <ul style="list-style-type: none">Designed a calibration guide system called Calibration Wizard. Supervisor: Prof. Peter SturmThe system estimates the best next calibration pose and guides users to the positionAdapted to camera models with various distortions as well as fisheye camera	2016 & 2017 Summer
	Machine Vision Algorithm Intern <i>INMOTION Technologies CO., LTD, Shenzhen, China</i> <ul style="list-style-type: none">Approached accurate real-time person re-identification without facial informationCombined log color space, uLBP and spatial covariance regions as torso features, trained by SVM	07/2015-08/2015
Selected Course Projects	02/2016-12/2016 <ul style="list-style-type: none">SLAM and object recognition with Pepper robot. [GitHub] [Video].PASCAL Visual Object Classes Challenge (Highest classification accuracy in VIBOT)Automatic multi-resolution atlas-based segmentation for tibia, femur and knee cartilage	
Awards and Honours	EU Erasmus+ mobility grant, awarded by European Union Commission, 2016 & 2017 Excellent bachelor's graduation thesis (top 5% of all graduates), XJTU, 2015 First Place in Search and Rescue Robot Challenge 2010, California State University Second Place in Trinity College Fire Fighting Home Robot Contest, Connecticut, U.S.A, 2010 Second Place in 2007 RoboCup Junior China Qualification Trial	
Programming	Python Matlab, C/C++, ROS, OpenCV, MeshLab, MeVisLab, Assembly, Ladder Programming	