

# YI-LIU CHAO

Computer Sciences, 305 N. University Street, West Lafayette, IN 47907

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## SUMMARY OF QUALIFICATIONS

PhD student of Computer Science in Purdue University. Experienced in Computer Science research with a background in Information Management and Business Administration. Concentrating on Computer Vision and Computer Graphics. Fluent in English and Mandarin.



## EDUCATION

PURDUE UNIVERSITY, IN, USA

*PhD student in Computer Science*, in progress, 2008 - now

~ Concentration: Computer Vision and Computer Graphics, Advisor: Daniel Aliaga

NATIONAL TAIWAN UNIVERSITY, Taipei, Taiwan

*Master of Science in Computer Science and Information Engineering*, 2005 - 2007

~ Concentration: Computer Vision and Image Processing, GPA: 4.0 (93.08%), Class Rank: 4/154

~ Thesis: Improving Location Accuracy by Combining Visual Tracking and Radio Positioning Techniques

NATIONAL TAIWAN UNIVERSITY, Taipei, Taiwan

*Bachelor of Business Administration, Information Management*, 2001 - 2005

~ 82.36%, Ranked 17th among 58 graduates, Recipient of Ninth Credit Co-operative of Taipei Scholarships.

## WORK EXPERIENCE

FACEBOOK, CA, USA

2010 SUMMER

*Software Engineer Intern*

- In Pages and Hubs team. Work in frontend using PHP, Javascript, css, HTML etc.
- Develop functionalities for facebook pages to improve connection between customers and local business owners.

PURDUE UNIVERSITY, IN, USA

2008 - 2009

*Teaching Assistant*

- In "Programming with Multimedia Objects" ([Fall08](#), [Spring09](#), [Fall09](#)) about Java and Java script.
- Teach recitations, write project specs and solutions, grade projects, consulting hours.

NATIONAL TAIWAN UNIVERSITY, Taipei, Taiwan

2007 - 2008

*Research Assistant*

- Work in the Image and Vision Lab, led by Professor Yi-Ping Hung and the Robot Perception and Learning Lab, led by Professor Chieh-Chih (Bob) Wang ([email](#)) in Computer Science and Information Engineering Department.
- Conduct research topics on "Monocular Simultaneous Localization and Mapping with Detection and Tracking of Moving Objects", and "the Museum Guidance system".

MEDIATEK INC., Hsin-Chu, Taiwan

2006

*Part-time Software Engineer*

- Advised by BR Wang ([email](#)) in the Wireless Communication Department at Taipei office.
- Develop visualization tool (c++, MFC, HTML, Javascript) which helps analysis of mobile phone protocol activities.
- Present the developed system.

## RESEARCH PROJECTS

- Genuinity Signatures, <http://wiki.cs.purdue.edu/cgvlab/doku.php?id=projects:genuinity>, 2009 - current
- Visual Simultaneous Localization and Mapping, by the Industrial Technology Research Institute of Taiwan, 2007

## PUBLICATIONS

- Yi-Liu Chao and Daniel Aliaga, "*Hidden Reliefs: Using Inverse Shape from Shading to Conceal Images*", submitted for publication, 2010
- **Yi-Liu Chao**, Li-Wei Chan, Jane Hsu and Yi-Ping Hung, "*Improving Location Accuracy by Combining Zigbee and Visual Positioning Techniques*", Asia-Pacific Workshop on Visual Information Processing (VIP), 2007