# Xiuming Zhang

• http://xiumingzhang.github.io

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## **EDUCATION**

#### B.Eng. (ECE), National University of Singapore, Singapore

Aug 11 - May 15

- GPA: 4.97/5.00 | Ranking: 1/282 | Lee Kuan Yew Gold Medal
- Thesis: Discovering Alzheimer's disease subtypes by voxel-based morphometry & topic modeling Committee: Profs. Thomas Yeo (advisor) & Shuicheng Yan (examiner)
- GRE: V 157 (74%), Q 170 (98%), AW 4.5 (80%) | TOEFL: 113 = R 30 + L 29 + S 26 + W 28

#### Exchange Student, University of Waterloo, ON, Canada

Jan 14 - May 14

• GPA: 95/100 (ECE courses)

#### **PUBLICATIONS**

- [2] J Gao, X Zhang, H Liang and X Shen, Joint encryption and compressed sensing in smart grid data transmission, in Proc. IEEE GLOBECOM, Dec. 2014
- [1] X Zhang, Y Jin, HX Tan and WS Soh, CIMLoc: a crowdsourcing indoor digital map system for localization, in Proc. IEEE ISSNIP, Apr. 2014

## Honors & Awards

Lee Kuan Yew Gold Medal (best graduate throughout)	NUS	Jun 15
IES Gold Medal (top graduating student)	IES	Jun 15
Texas Instruments Book Prize on DSP & Systems (area top)	$\mathrm{TI}$	Jun 15
Faculty Innovation & Research Awards	NUS	$\mathrm{Apr}\ 14\ \&\ 15$
IEEE-HKN (Eta Kappa Nu) Honor Society	IEEE	Jan 14
IET Prize	IET	Jul 13
Rohde & Schwarz Competition Finale Travel Grant	R & S GmbH	Jun 13
Intermediate Level Certificate of German Language	NUS	May 13
Dean's List	NUS	11 - 13

#### RESEARCH EXPERIENCE

Research Officer @ NUS-A\*STAR Clinical Imaging Research Center

Jul 15 - Now

As of September 12, 2015 1/2

Thesis Student @ NUS-A\*STAR Clinical Imaging Research Center

Aug 14 - May 15

neuroscience, MRI, linear model, hypothesis testing, graphical model

Advisor: Prof. Thomas Yeo

• Developed a hierarchical Bayesian framework of Alzheimer's disease subtypes that show distinct cognitive decline trajectories in both pre-clinical and clinical phases

Research Student @ uWaterloo Broadband Communications Research Lab Jan 14 - Apr 14 pseudorandom sequence, compressed sensing, smart grid Advisor: Prof. Xuemin Shen

• Implemented a compressed sensing scheme with encryption [2]

Research Intern @ NUS & A\*STAR Institute for Infocomm Research

MAY 13 - NOV 13

clustering, crowdsourcing, sensor, Android

Advisor: Prof. Wee-Seng Soh

• Designed and implemented an unsupervised, crowdsourcing indoor map construction system that improves tracking and localization [1]

## TEACHING EXPERIENCE

Teaching Assistant @ NUS School of Computing

Aug 12 - Aug 13

• Coached over 100 undergraduates in CS1010E Programming Methodology over two semesters and received very positive feedback from both the lecturers and the students

## Computer & Language Skills

Programming Languages MATLAB, Python, Shell, C, Android, VHDL, Assembly

Scientific Softwares FSL, FreeSurfer, SPM, COMSOL Multiphysics, HFSS

Typesetting T<sub>F</sub>X and friends, Adobe Illustrator

Operating Systems Linux, OS X, Windows

Languages English (proficient), Mandarin (mother tongue), German (elementary)

As of September 12, 2015 2/2