

Xiuming Zhang

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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)

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

FELLOWSHIPS & SCHOLARSHIPS

National Science Scholarship (Ph.D.)	A*STAR	16 - 21
Science & Technology Undergraduate Scholarship	MOE	10 - 15
Jacob Phang Memorial Scholarship	NUS	Nov 13

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)	TI	JUN 15
Faculty Innovation & Research Awards	NUS	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

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

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 L^AT_EX, Adobe Illustrator

Operating Systems Linux, OS X, Windows

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