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)
- 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)	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	LaTeX, Adobe Illustrator
Operating Systems	Linux, OS X, Windows
Languages	English (proficient), Mandarin (mother tongue), German (elementary)