

# Zijian Ding (Jason)

Aspiring PhD Student in HCI/ML and Social Computing | [zding@ucsd.edu](mailto:zding@ucsd.edu) | [jason-ding.com](http://jason-ding.com) (Updated in Oct 2020)

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EDUCATION	<b>M.S Electrical &amp; Computer Engineering</b> , University of California, San Diego (UCSD)	2020
	<b>B.Eng Electronic &amp; Information Engineering</b> , The Hong Kong Polytechnic University (PolyU)	2018
	<b>Summer Visiting</b> , The University of Cambridge	2017
	<b>Exchange</b> , National University of Singapore (NUS)	2017
	<b>Summer Visiting</b> , The University of British Columbia (UBC)	2015

RESEARCH EXPERIENCE	<b>Graduate Student Researcher (Lab Assistant II)</b> , UCSD ProtoLab	Apr 2019–Present
	Supervised by Prof. Steven Dow and Dr. Stephen MacNeil	
	<ul style="list-style-type: none"><li>Explore whether and how we can engage novice community members in the design process</li><li>Have developed numerous web-based interventions that leverage machine learning models and computation to help guide and scaffold the experiences of novices with 4 publications as second author</li></ul>	
	<b>Visiting Researcher</b> , Dept. of Computer Science and Engineering, HKUST	Sep 2020–Present
	Supervised by Prof. Xiaojuan Ma	
	<ul style="list-style-type: none"><li>Lead a research project of developing an interface to embed backchannel into conversation and collect spoken language biomarkers for screening and monitoring neurocognitive disorders of the elderly</li></ul>	
	<b>Undergraduate Student Researcher</b> , PolyU & Boud University	Sep 2017–Aug 2018
	Supervised by Prof. Hung-Lin Chi and Dr. Ruidong Chang (now with the University of Adelaide)	
	<ul style="list-style-type: none"><li>Worked on multiple computer-aided civil engineering projects with 2 publications</li></ul>	
	<b>Undergraduate Capstone Project</b> , PolyU	Apr 2017–May 2018
	Supervised by Prof. Francis C. M. Lau	
	<ul style="list-style-type: none"><li>Built a low-cost wireless water meter reading device to conduct image processing and digit recognition (2018 Hong Kong Best 50 Final Year Projects Award)</li></ul>	

## PUBLICATIONS **Conference Papers**

- [1] S. MacNeil, **Z. Ding**, Y. Sun, T. J. Parashos, K. Quan, S. P. Dow. The Problems with Problem Framing: Exploring How Novices Use Scaffolding based on Structural Decomposition to Craft Problem Statements. CHI'21, Yokohoma, Japan. (Under Review).
- [2] S. Palani, **Z. Ding**, A. Nguyen, A. Chuang, S. MacNeil, S. P. Dow. CoNotate: Suggesting Queries Based on Notes Promotes Knowledge Discovery. CHI'21, Yokohoma, Japan. (Under Review).
- [3] S. MacNeil, **Z. Ding**, A. Boone, A. B. Grubbs, S. P. Dow. Participatory Design at Scale: How Design Unfolds in An Online Community Discussion Forum. CSCW'21. (Under Review).
- [4] S. Palani, **Z. Ding**, S. MacNeil, B. Jew, S. P. Dow. An Exploratory Study of Web Search Use During Early-Stage Design. CHIIR'21. (Prepared for Submission).
- [5] R. Chang, Q. Wang, **Z. Ding**. Revolutionizing Urban Energy Planning: A Roadmap Towards City-level Energy Modelling in Australia. ICCPMCE'18, Sydney, Australia. (**Best Paper** 🏆).
- [6] Q. Wang, S. Zhang, D. Wei, **Z. Ding**. Additive Manufacturing (AM): A Revolutionized Power for Construction Industrialization. ICCREM'18, Charleston, USA. (**Best Paper** 🏆)

## Journals

- [1] S. Chang, Q. Wang, H. Hu, **Z. Ding**, H. Guo. An NNwC MPPT-Based Energy Supply Solution for Sensor Nodes in Buildings. Energies, 12(1), 1-20. (**10+ Citations from 2018**).
- [2] R. Chang, Q. Wang, **Z. Ding**. How is the Energy Performance of Buildings Assessed in Australia? A Comparison between four Evaluation Systems. International Journal of Structural and Civil Engineering Research, 8(2), 133-137.

AWARDS (US\$78,100)	<b>UCSD ECE SRIP Fellowship</b> , US\$5,000	2019
	<b>Winner of the UCSD Design Lab Mobility Hub Designathon</b> , US\$1,000	2019
	<b>Best 40 FYP+ Award</b> , US\$2,500	2019
	<b>Finalist of UC Berkeley Big Ideas Proposal Contest</b> , 16% acceptance rate	2019
	<b>PolyU Entry Scholarship (Academic Excellence)</b> , US\$61,500	2014–2018
	<b>Best Paper Award</b> , Intl. Conference on Construction and Real Estate Management	2018
	<b>Best Paper Award</b> , Intl. Conference on Construction Project Management & Construction Eng.	2018
	<b>Best 50 Final Year Projects Award</b> , US\$2,500	2018
	<b>Bronze Award (IT Services)</b> , 4th China College Students' "Internet+" Innov. & Entr. Competition	2018
	<b>Bronze Award (Mfg)</b> , 4th China College Students' "Internet+" Innov. & Entr. Competition	2018
	<b>Hong Kong-Tsingtao Association Scholarship</b> , US\$1,300	2018
	<b>Best GPA Award</b> , Dept. of Electronic and Information Engineering, PolyU	2017
	<b>Twice on Dean Honors List</b> , Faculty of Engineering, PolyU	2015–2017
	<b>Wong Tit-shing Student Exchange Scholarship</b> , US\$2,000	2017
<b>PolyU Student Exchange Scholarship</b> , US\$2,300	2017	
FUNDS (US\$67,000)	<b>UCSD (Don) Norman Design Fund</b> , US\$890	2019
	<b>PolyU Student Entrepreneurial Proof-of-Concept Funding Scheme</b> , US\$4,000	2019
	<b>PolyU International Competition &amp; Conference Participation Scheme</b> , US\$5,910	2018
	<b>Mingxi Youth Fund</b> , US\$33,000	2018
	<b>PolyU Global Student Project Fund</b> , US\$13,000	2018
	<b>PolyU Oxbridge Abroad Subsidy</b> , US\$6,400	2017
	<b>PolyU Offshore WIE Sponsorship</b> , US\$3,800	2016
COURSE PROJECTS	<b>Interaction Design (A+)</b> , Design and develop a budget web application with JavaScript.	Winter 2019
	<b>Machine Learning for Image Processing (A)</b> , Implement YOLOv3 with PyTorch.	Spring 2019
PROFESSIONAL EXPERIENCE	<b>Promotion Manager</b> , UCSD Design Lab Design for San Diego (D4SD) Challenge.	Jan–Sep 2020
	<b>Database Engineer Intern</b> , Moscow International Higher Business School (MIRBIS).	Jun–Aug 2016
SKILLS	<b>Programming Languages</b> Python, Java, C/C++, R, Matlab, $\LaTeX$ <b>Fullstack</b> JavaScript, React.js, Vue.js, Redux, Flask, Node.js, Docker, MySQL, Firebase, HTML, CSS <b>Machine Learning &amp; NLP</b> pyTorch, TensorFlow, scikit-learn, NLTK, pandas, spaCy, Gensim <b>Visualization</b> D3.js, ggplot2, Matplotlib, Seaborn, Plotly <b>UI &amp; Design</b> Figma, Photoshop, InDesign, AutoCad, Final Cut Pro, Paper Prototyping <b>Qualitative Research Methods</b> Interview, Usability Test, Qualitative Coding, Affinity Diagram <b>Hardware</b> Microcontroller Programming (Arduino, STM32), PCB design, 3D Printing <b>Languages</b> English, Chinese (Mandarin/Cantonese)	
MENTORING	<b>Kexin Quan</b> (B.S.) Major in Cognitive Science (ML & Neural Computation), UCSD	Apr 2020–Present
MEDIA APPEARANCES	<b>Interview "How to Make the Most of Your University Experience?"</b> 43,600+ views on YouTube. <b>Departmental Newsletter "Best Paper in 2018 ICCREM"</b> (on page 1) <b>Alumni Sharing "PolyU Helps Me Establish 3 Pillars of Research Exploration"</b> (in Chinese).	