

Zijian Ding (Jason)

Aspiring PhD Student in HCI/ML and Social Computing | zding@ucsd.edu | jason-ding.com (Updated in Dec 2020)

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

RESEARCH EXPERIENCE **Graduate Student Researcher (Lab Assistant II)**, UCSD Design Lab Apr 2019–Present
Supervised by [Prof. Steven Dow](#) and [Dr. Stephen MacNeil](#)

- Explore how to engage, empower and scaffold novice community members in the design process
- Conduct a case study of Canvas which uses a discussion forum to crowdsource problems and solutions from its own end-users; analyze 1412 ideas and 18,335 associated comments shared on Canvas
- Have developed 2 web-based interventions that leverage machine learning models and computation to help guide and scaffold the experiences of novices with 3 submissions, all as the second author (one full paper conditionally accepted by CHI'21 and one short paper accepted by CHIIR'21)

Visiting Researcher, Dept. of Computer Science and Engineering, HKUST Sep 2020–Present
Supervised by [Prof. Xiaojuan Ma](#)

- Lead a research project developing an interface to embed backchannel into conversation and collect spoken language biomarkers for screening and monitoring neurocognitive disorders of the elderly
- Collaborate with [Prof. Helen Meng \(CUHK\)](#) on a University Grants Committee (UGC) Theme-Based Research Scheme with funding HK\$50M (US\$6.45M) [[Media appearance on IEEE Spectrum](#)]

Undergraduate Student Researcher, PolyU & Boud University Sep 2017–Aug 2018
Supervised by [Prof. Hung-Lin Chi](#) and [Dr. Ruidong Chang](#) (now with the University of Adelaide)

- Work on 3 computer-aided civil engineering projects with 3 publications and co-led a successful 3D printing building project with US\$46,000 funds [[Talk at PolyU BRE Luncheon Research Seminar](#)]

Undergraduate Capstone Project, PolyU Apr 2017–May 2018
Supervised by [Prof. Francis C. M. Lau](#)

- Build a CV-based wireless water-meter reading system (Best 50 Final Year Projects Award in HK)

PUBLICATIONS **Conference Papers**

- [1] S. MacNeil, **Z. Ding**, A. Boone, A. B. Grubbs, S. P. Dow. Finding Place in a Design Space: Challenges for Supporting Community Design Efforts at Scale. CSCW'21. (Accepted).
- [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. (Conditionally Accepted).
- [3] S. Palani, **Z. Ding**, S. MacNeil, S. P. Dow. The "Active Search" Hypothesis: How Search Strategies Relate to Creative Learning. CHIIR'21. (Accepted).
- [4] 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** 🏆).
- [5] 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)	UCSD ECE SRIP Fellowship , US\$5,000	2019
	Winner of the UCSD Design Lab Mobility Hub Designathon , US\$1,000	2019
	Best 40 FYP+ Award , US\$2,500	2019
	Finalist of UC Berkeley Big Ideas Proposal Contest , 16% acceptance rate	2019
	PolyU Entry Scholarship (Academic Excellence) , US\$61,500	2014–2018
	Best Paper Award , Intl. Conference on Construction and Real Estate Management	2018
	Best Paper Award , Intl. Conference on Construction Project Management & Construction Eng.	2018
	Best 50 Final Year Projects Award , US\$2,500	2018
	Bronze Award (IT Services) , 4th China College Students' "Internet+" Innov. & Entr. Competition	2018
	Bronze Award (Mfg) , 4th China College Students' "Internet+" Innov. & Entr. Competition	2018
	Hong Kong-Tsingtao Association Scholarship , US\$1,300	2018
	Best GPA Award , Dept. of Electronic and Information Engineering, PolyU	2017
	Twice on Dean Honors List , Faculty of Engineering, PolyU	2015–2017
	Wong Tit-shing Student Exchange Scholarship , US\$2,000	2017
	PolyU Student Exchange Scholarship , US\$2,300	2017
FUNDS (US\$67,000)	UCSD (Don) Norman Design Fund , US\$890	2019
	PolyU Student Entrepreneurial Proof-of-Concept Funding Scheme , US\$4,000	2019
	PolyU International Competition & Conference Participation Scheme , US\$5,910	2018
	Mingxi Youth Fund , US\$33,000	2018
	PolyU Global Student Project Fund , US\$13,000	2018
	PolyU Oxbridge (Oxford & Cambridge) Abroad Subsidy , US\$6,400	2017
	PolyU Offshore WIE Sponsorship , US\$3,800	2016
COURSE PROJECTS	Interaction Design (A+) , Design and develop a budget web application with JavaScript.	Winter 2019
	Machine Learning for Image Processing (A) , Implement YOLOv3 with PyTorch .	Spring 2019
PROFESSIONAL EXPERIENCE	Promotion Manager , UCSD Design Lab Design for San Diego (D4SD) Challenge	Jan–Sep 2020
	Database Engineer Intern , Moscow International Higher Business School (MIRBIS)	Jun–Aug 2016
SKILLS	Programming Languages Python, Java, C/C++, R, Matlab, \LaTeX Fullstack JavaScript, React.js, Vue.js, Redux, Flask, Node.js, Docker, MySQL, Firebase, HTML, CSS Machine Learning & NLP pyTorch, TensorFlow, scikit-learn, NLTK, pandas, spaCy, Gensim Visualization D3.js, ggplot2, Matplotlib, Seaborn, Plotly UI & Design Figma, Photoshop, InDesign, AutoCad, Final Cut Pro, Paper Prototyping Qualitative Research Methods Interview, Usability Test, Qualitative Coding, Affinity Diagram Hardware Microcontroller Programming (Arduino, STM32), PCB design, 3D Printing Languages English (TOEFL:108, R:29 L:27 S:24 W:28), Chinese (Mandarin/Cantonese)	
MENTORING	Kexin Quan (B.S.) Major in Cognitive Science (ML & Neural Computation), UCSD	Apr 2020–Present
VOLUNTEER SERVICE	IT Advisor (prev. IT Secretary) , PolyU Living & Learning Communities–EHKC	Dec 2015–Dec 2017
	VP (prev. External Secretary) , PolyU Living & Learning Communities–PDC	Sep 2015–Apr 2017
	Conference Host , Asian Venture Philanthropy Network (AVPN) Conference 2016	May 2016
MEDIA APPEARANCES	Interview "How to Make the Most of Your University Experience?" 43,600+ views on YouTube Departmental Newsletter "Best Paper in 2018 ICCREM" (on page 1)	