

# Dr. Sonia Chen

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## Research Interests

Financial technology, innovative business models in healthcare, big data governance and ethics.

## Education

Postdoctoral fellow in Applied Economics, Huaqiao University, 2019-2021  
PhD in Business innovation, Ulster University, UK, 2012-2016  
MSc in Agricultural Development, Ulster University, UK  
BA in French Literature and Linguistics, Fu Jen Catholic University, Taiwan

## Postdoctoral Research

My postdoctoral research builds on my PhD research on telemedicine. Specifically, my research focuses on the technological advancement of connected health, factors affecting the sustainability of connected health in remote areas, managing stakeholder relationships to achieve localized aging in place, and researching smart remote and precision healthcare. I have published approximately 10 papers (SSCI/SCI) on these topics.

## Entrepreneurial Experience

I collaborated with a start-up team from Stanford University to apply entrepreneurship fundings which associate blockchain technology for the development and application of digital assets and encryption technology in financial technology. I served as an advisor, responsible for writing project proposals and providing guidance on strategic direction. In 2020, we received the highest level of angel investment funding from the Taiwan government, totaling approximately 4.8 million RMB (19.99 million Taiwan dollars).

## Published Papers

1. Chen, Sonia Chien-I. "Technological health intervention in population aging to assist people to work smarter not harder: Qualitative study." *Journal of medical Internet research* 20.1 (2018): e3. ([SCI, Top Journal, IF=5.03](#)).
2. Chen, Sonia Chien-I., and Chenglian Liu. "Factors Influencing the Application of Connected Health in Remote Areas, Taiwan: A Qualitative Pilot Study." *International Journal of Environmental Research and Public Health* 17.4 (2020): 1282. ([SSCI, Q1, IF=2.849](#)).
3. Chen, Sonia Chien-I., Chenglian Liu, and Ridong Hu. "Fad or Trend? Rethinking the Sustainability of Connected Health." *Sustainability*. 12.5 (2020): 1775. ([SSCI, Q2, IF=2.592](#)).
4. Chen, Sonia Chien-I., et al. "'Nomen Omen': Exploring Connected Healthcare through the Perspective of Name Omen." *Healthcare*. Vol. 8. No. 1. Multidisciplinary Digital Publishing Institute, 2020. ([SSCI, Q3, IF=1.916-\[\]](#)).
5. Chen, Sonia Chien-I., Ridong Hu, and Rodney McAdam. "Smart, Remote, and Targeted Health Care Facilitation Through Connected Health: Qualitative Study." *Journal of Medical Internet Research* 22.4 (2020): e14201. ([SCI, Top Journal, IF=5.03](#)).
6. Chen, Sonia Chien-I., et al. "How Geographical Isolation and Aging in Place Can Be Accommodated Through Connected Health Stakeholder Management: Qualitative Study With Focus Groups." *Journal of Medical Internet Research* 22.5 (2020): e15976. ([SCI, Top, IF=5.03](#))
7. Chen, Sonia Chien-I., Chenglian Liu, and Rodney McAdam. "Understanding Health Innovations: Comparative Case Studies of Taiwan and Northern Ireland." *Basic and Clinical Pharmacology and Toxicology*. Vol. 126. 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY, 2020. ([SCI, IF=2.6](#)).
8. Li, Hui-Shan, Chenglian Liu\*, and Chen Sonia Chien-I. "A Study of Authenticated Communication Based on Magic Square and Goldbach's Conjecture." *International Journal of Circuits System and Signal Processing* (EI).
9. XL Luo, C Liu, SCI Chen., The myth of disassembly and reverse engineering based on a digital signature scheme,- Design Engineering, 2021. (EI).
10. J Yang, X Tong, C Liu, SCI Chen., A Novel Mathematical Formal Proof in Zhang-Wang's Cryptographic Algorithm,- CONVERTER, 2021 (EI).
11. X Tong, J Yang, C Liu, SCI Chen ., An Application of ANFIS in Business to Customer Electronic Commerce Transactions, - Design Engineering, 2021. (EI).

12. CW Hsu, C Liu, SCI Chen., Study of Anonymity and Supervision Based on Negotiable Securities Information System.,- Design Engineering, 2021. (EI).

13. Chen, Sonia C.-I., Chenglian Liu, Zhenyuan Wang, and Farid Arya. 2022. "Innovative Strategies to Fuel Organic Food Business Growth: A Qualitative Research" International Journal of Environmental Research and Public Health 19, no. 5: 2941. <https://doi.org/10.3390/ijerph19052941>

### **Books:**

Chen Sonia Chien-I. & Radwan, K. (2018) The link between innovation and prosperity: Are we managing knowledge to the individual and society's benefit from Big Data Governance. IGI Global.

### **PhD Thesis:**

2016.10. An Exploratory Study of Value-Centric Business Model Innovation in Connected Health.

### **Master's dissertation**

2011.09. Innovative Marketing Strategy for Organic Business.

### **Academic Honors:**

2019.01-2021.01: Class A Postdoctoral Exchange Program Funding from the Fujian Provincial Department of Human Resources and Social Security, China

2017.09-2018.09: Overseas Talent Bridging Program for Returning Scholars from the Ministry of Science and Technology, Taiwan (First Hundred Talent Plan)

2012.10-2015.10: Vice-Chancellor's Research Scholarship from the UK National Scholarship

2014-2015: Santander Travelling Scholarship from Santander University, UK

2010-2011: Moy Park Student Award for Best Overall Performance from Moy Park Food Company, UK

### **Patents Granted in the Past 5 Years:**

2019.01.31: Improvement of Eye Mask Sensor Structure (M577725), Taiwan, Utility Model Patent, First Inventor

2019.08.26: Goldbach Conjecture Computing System (M588288), Taiwan, Utility Model Patent, Second Inventor