Dr Joseph Chien

Australian Bureau of Statistics,
Sir Roland Wilson Alumni, Australian National University

Joseph has been at the APS for over 20 years and is currently the director of the Data Access and Confidentiality Methodology Unit (DACMU). Joseph's PhD research analysed administrative data to better understand the microdrivers of productivity
.
His research interests include productivity analysis, network modelling, semantic web and synthetic data. Joseph is interested in advancing a synthetic data approach at the ABS to make its data more accessible for research while ensuring confidentiality of the providers.

Articles and Publications:

- Bailie J and Chien C H (2019) 'ABS perturbation methodology through the lens of Differential Privacy'. *Work Session on Statistical Data Confidentiality*, UNECE/Eurostat, The Hague, Netherlands, October 29-31. Available at https://unece.org/fileadmin/DAM/stats/documents/ece/ces/ge.46/2019/mtg1/SDC2019_S2_ABS_Bailie_D.pdf.
- Chien C H, Welsh A H and Moore J D (2020) 'Synthetic Business Microdata: an Australian example'. *Journal of Privacy and Confidentiality*, 10(2) DOI: 10.29012/jpc.733.
- Chien C H (2021) *Using administrative data to gain insights into microdrivers of productivity* [PhD Thesis], The Australian National University, Canberra.
- Chien C H (2022) 'USING ADMINISTRATIVE DATA TO GAIN INSIGHTS INTO MICRO-DRIVERS OF PRODUCTIVITY'. *Bulletin of the Australian Mathematical Society*, 105(1):175–176.