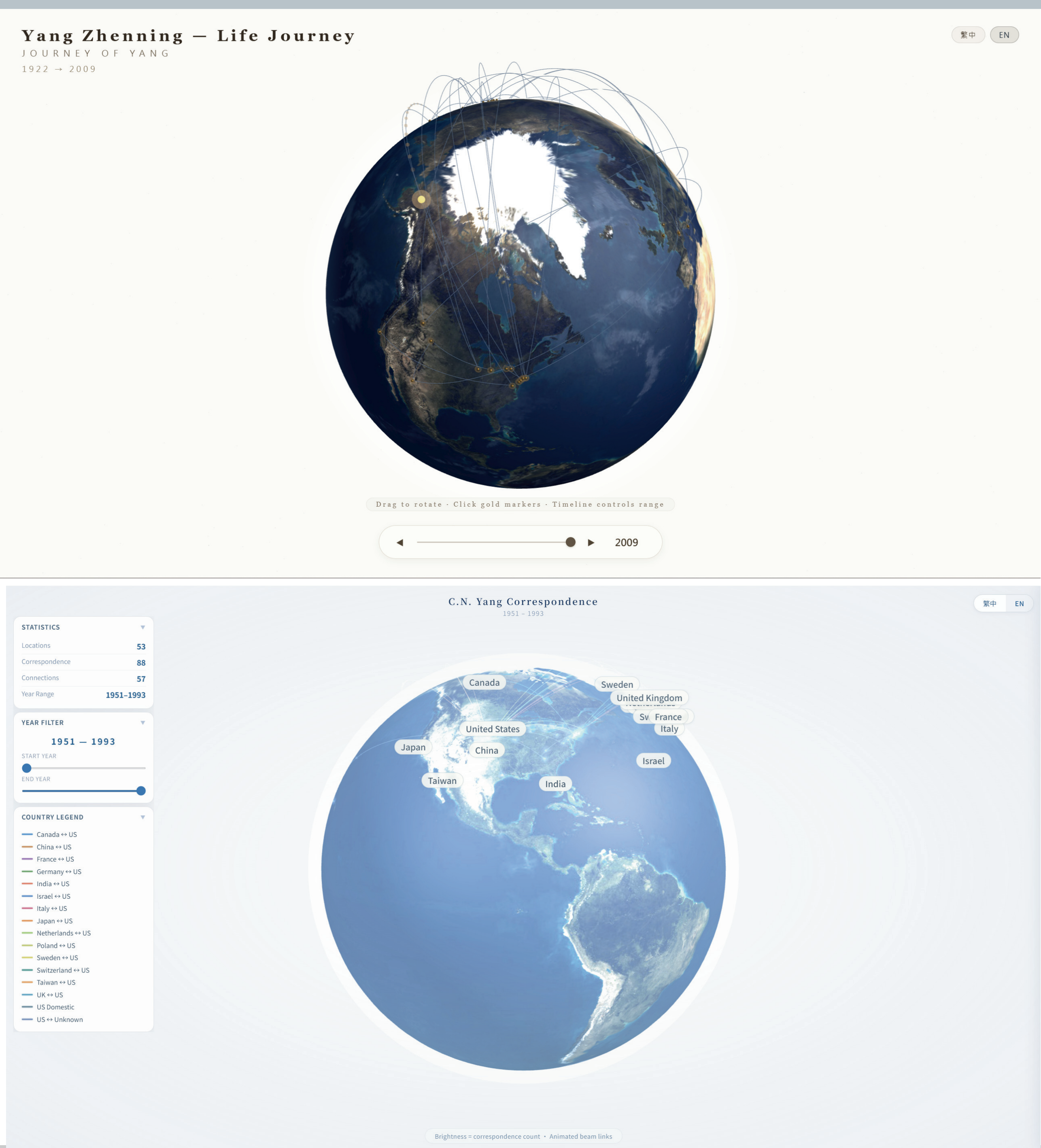




FROM
CORRESPONDENCE
TO
COAUTHORSHIP:
RECONSTRUCTING
C. N. YANG’S
TRANSPACIFIC
ACADEMIC
NETWORK HISTORY
重建楊振寧的跨太平洋
學術網絡歷史

Deng Kaifeng DSPS/2
Ju Ran DSPS/2
Xin Chuangjian GPAD/3



Data Analytics Practice Opportunity 2025/26



香港中文大學圖書館
The Chinese University of Hong Kong Library



Introduction:

Before us lay 1,283 fragments of a life—equations scrawled at midnight, letters yellowed by decades, photographs of faces long gone. We were archaeologists of connection, sifting through the remnants of C.N. Yang's world. And slowly, a map revealed itself: threads of ink stretching from Princeton across the Pacific, correspondence whispering between continents.

Research Questions:

RQ 1: Over the period covered by our dataset, how does Yang's professional network, measured via co-authorship, correspondence, and archival co-mentions, change over time?

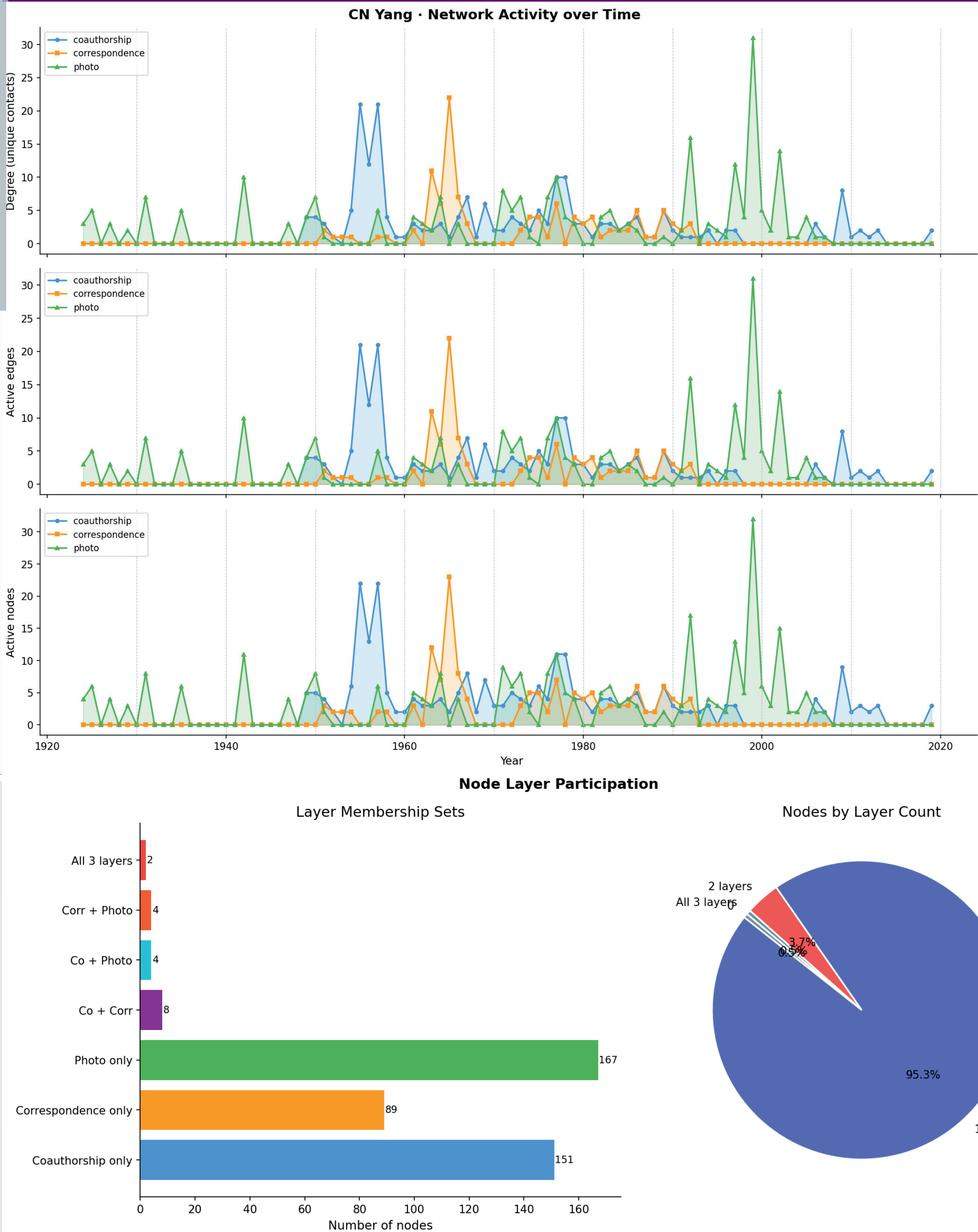
- RQ 1. a: Do pre-specified Yang milestones and China-U.S. relations phases coincide with structural shifts in these measures?
- RQ 1. b: Do temporal and cross-border patterns differ systematically across tie layers (co-authorship vs correspondence vs co-mention)?

Methods and Anlytical Tools

- Python-based data cleaning and deduplication, archive/public-data cross-referencing, multiplex social network analysis, temporal and cross-layer analysis, geocoding, and interactive mapping.

Research Results and Visualisation:

Coauthorship Correspondence Comention



•The project highlights both the potential and the considerable labour required to reconstruct multiplex networks from diverse archival sources.

•The methodological pipeline combines web scraping, manual correspondence identification, LLM-assisted institution and country detection, and geocoding via Nominatim, and is applicable to other similar archival collections.

More about this project: <https://dsprojects.lib.cuhk.edu.hk/en/projects/cn-yang/introduction/>
Acknowledgment: The archival materials used in this project were provided by the Department of Physics and the C. N. Yang Archive, CUHK.
If you would like to reuse the data, please contact data@cuhk.edu.hk.

