Yunpei GU

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EDUCATION BACKGROUND

Northeastern University (NEU)   Seattle, US
M.S. in Computer Science   *Sep. 2023 - present*
Courses: Intensive Foundations of Computer Science, Discrete Data Structures, Object Oriented Design, Data Structures and Algorithms

University College London (UCL)   London, UK
M.A. in Cultural Heritage Studies, GPA: 68.17/100   *Sep. 2018 - Nov. 2019*

Renmin University of China (RUC)   Beijing, China
B.A. in Fine Arts (Arts Management and Curation), GPA: 3.80/4.00 (Rank 1)   *Sep. 2014 - Jun. 2018*

PROFESSIONAL EXPERIENCES

Gesture based music notation system   Seattle, US
Personal project supervised by Marlin Eller   *Sep. 2023 - present*

- Led the development of a GUI-centered music notation system leveraging Java, emphasizing complex GUI structures and pattern recognition AI techniques for user input.
- Built 30+ classes to support graphical music notation structures and user interaction.
- Utilized AI pattern recognition to enable gesture-based input for the system.
- Structured and organized the project, advancing skills in GUI-based architecture and design.

Cultural Heritage Conservation Center, Tsinghua University   Beijing, China
Data analyst and Media specialist (full-time)   *Feb. 2020 - Jun. 2023*

- Built a visualized database for geographical information of 5535 museums and 5058 National Heritages Sites in China, and 1154 UNESCO World Heritages sites using Geographic Information System and Tableau. Data analysis and visualization of these sites had 160 thousand views on social media, and help to win a construction bid to serve the 2021 UNESCO World Heritage Convention.
- Expand the Center's visibility and influence through data analysis of social media accounts' popularity and design strategy, and by producing 500+ contents in article, animation, and videos, aligning with 100+ cultural heritage professionals. The number of followers was risen from 15 thousand to 30 thousand, and the page view from 200 thousand to 375 thousand.

Renmin University of China (RUC)   Beijing, China
Researcher at Capital Development and Government Institute (part-time)   *June. 2022 - Sep. 2023*

- Research on the Evaluation Index Framework of Museum Cities delegated by the Beijing Bureau of Cultural Relics. Evaluated social and economic impacts of 49 museums in 7 cities in U.S. and E.U. by analyzing data on visitors, finance, collections, etc., and build a framework for evaluating the museum industry's economic contribution by applying quantitative methods.

PUBLICATIONS

Li, Z. Y., **Gu, Y.**, and Zhang, R.: Toward a Wider Audience, Systematic Approach of Reinterpretation and Representation of the East Main Hall of FoGuang Temple Based on Digital Documentation and 3D Visualization Techniques, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLVI-M-1-2021, 395–402.

(in press) **Gu, Y.**, Development and Impact of Museums in the US and EU, Museum Cities and National Economy Development of Beijing, China Renmin University Press, 2023.

SKILLS

Programming: Python, JAVA, SQL.
Technical: Tableau, Blender, Adobe Photoshop, Premier, After Effect, Animate, Illustrate, Procreate.
Language: Mandarin Chinese (native speaker), English (IELTS 7.5, China Accreditation Test for Translators and Interpreters Level 2), Japanese (JLPT N2).
Music: Guqin (Chinese traditional seven-stringed zither).