

Xiaoyan (Alice) Yang

Email: xiaoyan.yang@rug.nl

EDUCATION

University of Groningen

Netherlands

PhD candidate in Faculty of Arts, Computational Linguistics (CL)

Jun 2023 –

Promoted by Professor Johan Bos, **Supervised by** Associate Professor Federico Pianzola, involved in the ERC funded research project “Graphs and Ontologies for Literary Evolution Models” (GOLEM, 2023-2027).

University College London (UCL)

London

Major in Digital Humanities MSc, Department of Information Studies

Sep 2021 – Nov 2022

Graduated with Distinction (1/30)

Supervised by Associate Professor Antonis Bikakis

- **Core Courses:** Graph Databases and Semantic Technologies, Data Visualization and GIS, XML, Digital Resources in the Humanities, Database Theory & Practice, Internet Technologies, JavaScript, Global DH.
- **Dissertation:** Ontology Design, Knowledge Graph Construction, GIS Visualization and Semantic Mining of Hexi Regional Poetry Resources.

University of International Business and Economics (UIBE)

Beijing

Major in Economic Statistics, School of Statistics

Average: 85 (15/70)

Sep 2017 – Jul 2021

- **Core Courses:** Data Mining & Statistical Computing, Time Series Analysis, Stochastic Processes, Differential Equations, Multivariate Statistical Analysis, Micro-economics, Macro-economics, Econometrics, Business Data Processing and Analysis, International Trade Statistics, C++ Programming, Mathematical Analysis.

PUBLICATION

- **Yang, X.**, Bikakis, A. Using CIDOC-CRM to model Chinese Hexi Regional Poetry. *17th International Conference on Metadata and Semantics Research*.
- Zhang, Q., Gao, J., Long, J., **Yang, X.**, Xia, H., Jiang, Z. Visualization of Temporal and Spatial Emotional Trajectory of Poets Based on Knowledge Reconstruction-Taking Xin Qiji as an Example. *Journal of the China Society for Scientific and Technical Information*.

RESEARCH EXPERIENCE

CrossCult Project (2016-2019) Impact Measurement Fellowship | *Team Member*

July 2022 – Sep 2022

- Interviewed the relevant partners from National Gallery, University of Luxembourg and other facilities of EU funded project CrossCult and then wrote the final report under the guidance of Associate Professor Antonis Bikakis.

2022 Digital Humanities (DH) Summer Workshop, Peking University | *Participant*

July 2022 – Aug 2022

- Conducted statistical and GIS analysis for the guild halls built in Ming and Qing dynasty in Beijing and participated in the final research report writing.

British Library & Wiki Media UK | *Research Intern*

May 2022 – Jun 2022

- In charge of the metadata design, image annotation and linked data construction with Wiki Commons in the Lotus Sutra Project under the International Dunhuang Project (IDP) and The Michael Marks Awards for Poetry Pamphlets Project in Wikidata.

DH Research Center of Peking University | *Research Intern*

July 2021 – July 2022

- Participated in the metadata design and construction of tripod knowledge graph for Chinese bronze tripods; involved in the protocol development of the classical Chinese automatic annotation platform “Wu Yü Dian”.

Research Center for DH of Renmin University of China | *Research Intern*

July 2021 – July 2022

- Worked as student editor and proofreader for the journal *Digital Humanities Research*; designed the metadata, built database and organized the policy timeline for coupons of 1950s-1990s (planned economy times) provided by Beijing Achieve; participated in the design of strategy game “Prepare for the Spring Festival in 1960s in Beijing”, data presentation prototype of the special website.

Machine Learning Seminar, School of Information, UIBE | *Research Intern*

Sep 2020 – Jun 2021

- Joined Prof. Huang Hao's machine learning postgraduate research group and studied the classic models and theories in the fields of Natural Language Processing and Computer Vision in weekly meeting; participated in weekly practical training of prediction or classification task by using GitHub open data set.

College Student Market Survey and Analysis Research Session | *Team Leader*

Nov 2018 – Mar 2019

- Led a student team and built an evaluation model to measure the effectiveness of Bel Canto TV show on its audience; analyzed and summarized the effective commercial communication paradigm of promoting minority arts; in charge of data acquisition, and principal component analysis on 1,000+ sample data with SPSS.

TEACHING EXPERIENCE

Zhuomo Education Centre | *English Teacher*

Mar 2021 – Jun 2021

- Worked as part-time 1V1 IELTS teacher; had taught 10 students; prepared the lecture based on the foundation and response of students; marked speaking and composition assignments; led practice tests for students.

Selection of Tang-Song Poetry Course in UIBE | *Teaching Assistant*

Sep 2019 – Jan 2020

- Graded the assignments and advised students in their presentation.

INDUSTRY EXPERIENCE

Mininglamp Technology | *Data Analyst Intern*

Sep 2020 – Dec 2020

- Created query rules for PGC and UGC vocalization on network platforms details supported by the inner knowledge graph system according to the requirements of clients, and conducted statistical analysis on the exported sound volume; tracked the daily negative news for Bosch and Microsoft; wrote feasibility study reports.

PricewaterhouseCoopers | *Business Data Analysis Intern*

Jul 2020 – Aug 2020

- Involved in a risk rating project, established a LightGBM model to interpret the risk rating trend of bonds based on 40,000+ bonds' multiple financial information, and carried out structural factor analysis and prediction.

AWARDS & SCHOLARSHIPS

Outstanding Winner in 2020 Mathematical Contest in Modeling (top 0.3%) | *Team Leader*

May 2020

- Adopted R to select high-frequency matching triplets from nearly 60,000 passing players' numbers and GPS data, based on the motif concept in the official references; conducted networks research and multiple regression model training; participated in the paper writing.

First Prize in 2019 Undergraduate Mathematical Contest in Modeling (Beijing Area) | *Team Leader*

Mar 2019

- Led the modeling design, completed the capture and MATLAB function fitting of the passengers' exit data at the Capital Airport, calculated and predicted the actual human flow by matrix calculation.

Integrated Scholarship of UIBE (top 20%)

Mar 2018 – Mar 2021

- Awarded for the average grade per academic year

LANGUAGE & SKILLS

• Languages

Chinese: master; **English:** fluent (IELTS 7.5 (7), GRE 331); **Spanish:** intermediate; **French:** moderate.

• Skills

Proficient: R, Python, SQL, Neo4j, Protégé, ArcGIS

Basic knowledge: C++, C#, MATLAB, SAS, SPSS, VB, JavaScript, Stata, QGIS, LaTeX