

Elise Jing

School of Informatics, Computing and Engineering
Indiana University Bloomington
919 E 10th Street, Bloomington, IN 47408 USA
+1 (812) 360-8298 — jingy@indiana.edu — yzjing.github.io

EDUCATION	<p>Ph.D. Complex Systems, Indiana University Expected: May 2020</p> <ul style="list-style-type: none">• Minor: Computational Linguistics• Main areas: Data Science, Natural Language Processing, Network Science <p>B.S. Information Science, Sun Yat-sen University Jun 2015</p> <p>B.A. Anthropology, Sun Yat-sen University Jun 2014</p>
SKILLS	<p>Languages: Python (primary language), Apache Pig, Java, SQL, R, HTML</p> <p>Libraries:</p> <ul style="list-style-type: none">• Data science: NumPy, SciPy, Pandas, Scikit-Learn, Jupyter• Deep learning: Keras• Visualization: Matplotlib, Seaborn <p>Other Tools: Git, Latex, Gephi</p> <p>Qualitative research: Anthropological field work, participant observation, survey and interview.</p>
PROJECT EXPERIENCE	<p>Novelty and Success of Writings in an Online Community</p> <ul style="list-style-type: none">• Created a Python web scraper to collect a large dataset of more than 4 million fictions• Used the TF-IDF and LDA models to quantify the novelty of fictions• Created multiple regression models and generalized additive models to find out what makes creative writings successful• Paper in review: <i>ICWSM 2019</i>• Code: https://github.com/yzjing/ao3 <p>Forecasting Large-scale Economic Evolution</p> <ul style="list-style-type: none">• Used Apache Hadoop and Pig to work with huge datasets from LinkedIn• Analyzed the labor force flows between 147 industries and more than 3,000 regions• Suggested a new approach for understanding the organization of industrial sectors and the evolution of global economy• Paper in submission to <i>PNAS</i>. Patent filed: US 15/229,956
WORK EXPERIENCE	<p>Associate Instructor, Indiana University Aug 2014-present</p> <ul style="list-style-type: none">• Use live code demos to teach the full Python data science stack, including NumPy, SciPy, Matplotlib, Pandas, Scikit-Learn, and Jupyter• Help 30+ students in learning Python/Javascript programming and data visualization skills each semester• Provide supervision and feedback for 10+ student projects each semester
HONORS & AWARDS	<ul style="list-style-type: none">• LinkedIn Economic Graph Challenge, 2015 (One of the 11 winning teams)• NSF Research Trainee scholarship in Complex Networks and Systems, 2018• Alumni of the Santa Fe Institute's Complex Systems Summer School, 2016
ACADEMIC SERVICES	<ul style="list-style-type: none">• Review for WWW 2017, 2018• Volunteer for the Techie Women Have More conference, Indiana University, 2016