

Elise Jing

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EDUCATION	Ph.D. Complex Systems, Indiana University • Minor: Computational Linguistics • Main areas: Data Science, Natural Language Processing, Network Science B.A. Sun Yat-sen University • Dual major in Anthropology and Information Science	Expected: May 2020 Jun 2014
SKILLS	Languages: Python (primary language), Apache Pig, Java, SQL, R, HTML Libraries: • Data science: NumPy, SciPy, Pandas, Scikit-Learn, Jupyter • Deep learning: Keras, PyTorch • Visualization: Matplotlib, Seaborn Other Tools: Git, Latex, Gephi Qualitative research: Anthropological field work, participant observation, survey and interview.	
PROJECT EXPERIENCE	Novelty and Success of Writings in an Online Community • 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 Forecasting Large-scale Economic Evolution • 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> . Arxiv: 1902.04613 . Patent filed: US 15/229,956	
WORK EXPERIENCE	Associate Instructor, Indiana University • 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	Aug 2014-present
HONORS & AWARDS	• 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	• Review for WWW 2017, 2018 • Review for PLOS ONE • Volunteer for the Techie Women Have More conference, Indiana University, 2016	