Zhe (Yolanda) Xue

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SUMMARY OF QUALIFICATIONS

- Applied economist and data scientist with strong economic modeling, data analysis, and text mining skills in Python, R, MATLAB, and STATA, gained through 5+ years of research experience.
- Experienced in verbal and written communication to a wide range of audiences, including researchers and students with diverse academic backgrounds and industry partners through professional experience.
- Ability to work as an interdisciplinary collaborator, lead the team, and manage multiple projects on schedule through project management and leadership experience.

EDUCATION

Cornell University   Ithaca, NY
Ph.D. in Applied Economics and Management   *Aug. 2017 – May 2022*
M.S. in Applied Economics and Management   *Aug. 2017 – Dec. 2020*
Related Courses: Empirical Strategies, Industrial Organization and Regulation, Text and Networks, Machine Learning, Applied Econometircs, Applied Risk, Dynamic Optimization, Quantitative Marketing Models.

University of California San Diego   La Jolla, CA
B.S. in Joint Mathematics-Economics, GPA 3.87 (With Provost Honor)   *Sept. 2013 – Mar. 2017*
Marshall College Honors Program

RESEARCH EXPERIENCE

Graduate Researcher   Ithaca, NY
Cornell Charles H. Dyson School of Applied Economics and Management   *Jun. 2018 – Present*

- Collect data from online databases using SQL queries and automated web scraping for self-direct projects.
- Perform data cleaning, exploratory data analysis, text mining, and data visualization on large-scale datasets using Python and present key insights to a wide range of audiences with diverse academic backgrounds.
- Build conceptual frameworks and econometric models to solve strategy research questions, including understanding the economic importance of firms' innovation disclosure strategy and identifying the causal relationship between patent litigation and firms' innovation activities.
- Construct novel text-based metrics of innovation disclosure to quantify the value of information disclosure on innovation and complement the traditional quantitative metrics in the literature.

Graduate Research Assistant   Ithaca, NY
Cornell Charles H. Dyson School of Applied Economics and Management   *Jun. 2018 – Sept. 2018*

- Assisted on patent research, developed protocol, and supervised one undergraduate research assistant on automated data collection and data analysis.

Research Fellow   La Jolla, CA
UCSD Extension Center for Research on the Regional Economy   *Apr. 2016 – Jun. 2016*

- Managed multiple program evaluation and market research projects, designed survey questions, constructed qualitative datasets using various online databases, and analyzed the data to gain market insights.
- Presented reports to directors and industry partners and wrote a 10-page proposal for a grant.

Undergraduate Research Assistant   La Jolla, CA
UCSD Department of Economics   *Apr. 2016 – Mar. 2017*

- Assisted with research on computational analysis of history textbooks, collected textual data, provided insights on research focus and methods, and identified key historical events for sentiment analysis.

SKILLS

Technical Skills	Modeling, Data Analytics, Text Mining, Web Scraping, Machine Learning
Software and Language	Python, R, MATLAB, STATA, Git, SQL
Libraries	pandas, NumPy, Matplotlib, regex, NLTK, spaCy, Scikit-learn
Manuscript Preparation	Microsoft Word, LaTeX

Leadership Experience

Senior Data Science Fellow Ithaca, NY
Cornell Center for Social Sciences *Aug. 2021 – Present*
- Facilitate computational social science research and methods across Cornell by reconstructing consulting service flow and developing protocols to provide better research support and ehance client experience.
- Design the machine learning workshop series from scratch, instruct the workshop, and write the *Handbook of Machine Learning for Social Sciences* that focus on hands-on experience in data analysis and modeling.
- Serve as a consultant to help social scientists meet their research needs, such as designing NLP pipelines for analyzing text and preparing data for analysis in Python and STATA.

Graduate Teaching Assistant Ithaca, NY
Cornell Charles H. Dyson School of Applied Economics and Management *Sept. 2018 – May 2021*
- Assisted in teaching graduate- and undergraduate-level courses in applied economics and strategy, ranging in size from 40 to 280 students.
- Instructed students on research design and data visualization as a guest speaker, and led discussion sections to mentor students on problem-solving questions by applying economic and econometric models.
- Led group meetings with project teams, mentored students on platform strategy research projects, and promoted active learning by creating safe spaces for students with diverse academic backgrounds to engage.

Undergraduate Teaching Assistant and Peer Tutor La Jolla, CA
UCSD Department of Economics *Jan. 2016 – Mar. 2017*
- Assisted in teaching Intermediate Microeconomics A, drafted exam questions, and led discussion sections.
- Was selected as a peer tutor and helped the department to successfully experiment with the Peer Tutoring Lab, which later turned into a long-term program funded by the university.

Triton Community Programming Leader La Jolla, CA
UCSD Parents and Family Program *Sept. 2014 – June 2016*
- Organized and facilitated campus-wide activities involving thousands of participants with diverse backgrounds and got promoted to Team Lead during the second year in the office.
- Recruited and mentored first-year team members to adapt to the team dynamics and transit to the position.

Marshall College Student Council Member La Jolla, CA
UCSD Thurgood Marshall College *Sept. 2014 – Jun. 2015*
- Hosted events for students at Marshall College and voted for policy changes and funding allocation for campus-wide student events.

Triton International Leader La Jolla, CA
UCSD International Center *Sept. 2013 – June 2014*
- Led a team to create a guidebook that helped international students to adapt to the new cultural environment and distributed the guidebook to all incoming students during orientation.

Research Projects

Working Papers
- **Zhe Xue**. "A text-based analysis of innovation disclosure"
- Leiponen, Aija E., and **Zhe Xue**. "How does patent litigation by Patent Assertion Entities impact invention activity?"

Research in Progress
- Leiponen, Aija E., and **Zhe Xue**. "Patent litigation and firms' invention disclosure strategies"

Selected Presentations

Lightning Talk Speaker, Research Data Access and Preservation Summit, Mar. 2022. *Reconstructing Data Services: A Matrix-Team Approach*

Session Speaker, European Policy for Intellectual Property Conference, Sept. 2021. *How does patent litigation by Patent Assertion Entities impact invention activity?*

Invited Paper Presentation Speaker, TILEC Workshop on Patents and Standards, Sept. 2021. *How does patent litigation by Patent Assertion Entities impact invention activity?*

Session Speaker, Annual Meeting of the Academy of Management, Aug. 2021. *How does patent litigation by Patent Assertion Entities impact invention activity? (Selected as a "Best Paper")*