

# ERIC B. ZHOU

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U.S. Citizen

## Education

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Expected 2021	<b>Carnegie Mellon University Tepper School of Business</b> Master of Business Administration, <i>Business Analytics Track</i> Concentrations in <i>Business Technology</i> and <i>Operations Research</i> GPA: 3.88/4.00	Pittsburgh, PA
2014 - 2018	<b>Washington University in St. Louis Olin Business School</b> Bachelor of Science in Business Administration Majors in <i>Finance</i> and <i>Marketing</i> GPA: 3.69/4.00	St. Louis, MO

## Research Interests

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Human-computer collaboration for decision making  
Design and evaluation of human-AI collaborative systems

Social and economic impacts of AI  
Human-AI systems for creativity and innovation

## Working Papers

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Lee, Dokyun; **Zhou, Eric**; Mao, Chengfeng; Kane, Gerald. "Interpretable Machine Learning For Theory Building: Human-AI Collaboration." *Accepted to MISQ Author Workshop. Submitted to MISQ for initial review.*  
"Recent advances in Interpretable Machine Learning (IML) offer flexible, scalable solutions to help humans develop novel hypotheses, especially with large volumes of unstructured data. We demonstrate by applying a novel IML algorithm to three datasets and reproduce theoretical insights from published research with minimal time and human intervention."

## Research Experience

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Present	<b>Graduate Research Assistant</b> at Carnegie Mellon University Advisor: Dokyun Lee	Pittsburgh, PA
	<ul style="list-style-type: none"><li>Applied novel Deep Learning algorithm Focused Concept Miner (FCM) on unstructured data to reproduce theoretical insights published in leading journals.</li><li>Created <a href="#">FCM</a> user guide and demonstration, serving as liaison with faculty alpha/beta testers (<a href="#">Github link</a>).</li><li>Prepared course material for <i>Deep Learning for Business: Mining Unstructured Data</i>, covering technical details on neural language models like Transformer, BERT, and GPT1, 2, &amp; 3.</li></ul>	
Summer 2016	<b>Undergraduate Research Assistant</b> at Washington University in St. Louis Advisor: David Meyer	St. Louis, MO
	<ul style="list-style-type: none"><li>Performed web scraping to obtain data on job mobility trends among global investment banks.</li><li>Created career timelines of investment banking executives to trace global talent movement in the industry.</li><li>Qualitatively analyzed job mobility within banking network to identify hubs that facilitate talent exchange.</li></ul>	

## Industry Experience

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2018 - 2019	<b>Market Research Analyst</b> at Nielsen BASES <i>Product Innovation Analytics</i>	Wilton, CT
	<ul style="list-style-type: none"><li>Designed and conducted research plans to evaluate new product concepts.</li><li>Analyzed correlation between product innovations and in-market success to determine innovation and market entry strategy for consumer goods companies.</li><li>Co-led initiative to develop predictive model that forecasts incremental brand value of new innovations.</li></ul>	
Summer 2017	<b>Business Development Intern</b> at Missouri Historical Society	St. Louis, MO
	<ul style="list-style-type: none"><li>Managed nationwide outreach with other cultural institutions to form a reciprocal benefits network.</li></ul>	

- Conducted market research to evaluate member engagement and alternative membership models.

Summer 2015

**Information Technology Intern** at Merck

Beijing, CN

- Built framework for UI and backend database using SharePoint for a site-wide resource management tool.
- Framework later implemented by the IT team to optimize resource allocation across 300 employees.

## Skills

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### Computer

Proficient: Python, R, SQL, Excel, LaTeX  
Basic: Java, Tableau, AIMMS, Gurobi, Julia

### Language

English: Native  
Mandarin: Proficient  
French: Proficient

## Relevant Coursework

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### Official Coursework

#### *Mathematics & Statistics*

Statistical Decision Making  
Probability & Statistics  
Matrix Algebra  
Calculus III

#### *Computer Science & Analytics*

Applied Machine Learning  
(PhD) Econominig: Neural Language & Generative Models  
Applications of Operations Research  
Modern Data Management  
Optimization  
Data Structures & Algorithms  
Computer Science I

### Independent Study

#### *Mathematics & Statistics*

Mathematics for Machine Learning  
MIT OCW Linear Algebra

#### *Computer Science & Analytics*

NLP with PyTorch  
CMU CS Introduction to Machine Learning  
Neural Network Methods for NLP  
Deep Learning with Python/PyTorch  
Hands-On Machine Learning with Scikit-Learn & Tensor Flow  
MIT OCW Introduction to CS & Programming

## Honors & Awards

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May 2019	Tepper School of Business merit-based scholarship
Feb. 2019	Nielsen BASES Client Service Superstar Award
Nov. 2014	2 <sup>nd</sup> place, Olin Foundations of Business Product Design Competition
May 2014	Olin Business School merit-based scholarship
May 2014	Xerox Award for Innovation & Information Technology
June 2013	1 <sup>st</sup> place in nation, Database Design & Applications at FBLA National Leadership Conference

## Activities

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Dance Instructor for CMU KPDC - Carnegie Mellon University  
Dancer for KASA Dance - Carnegie Mellon University  
Dancer for Dancers' Symposium - Carnegie Mellon University  
Executive board member, videographer, dance instructor for PL4Y Dance - Washington University in St. Louis