

# ERIC B. ZHOU

**U.S. Citizen**

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## Education

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2023 - 2026 (Expected)	<b>Boston University Questrom School of Business</b> <i>Doctoral Candidate in Information Systems</i> Advisor: Dokyun Lee Dissertation: "Human Creativity & Creative Markets in the Age of Generative AI"	Boston, MA
2021 - 2023	<b>Washington University in St. Louis Olin Business School</b> <i>Doctoral Student, awarded Master of Science in Business Administration</i> *Transferred to Boston University	St. Louis, MO
2019 - 2021	<b>Carnegie Mellon University Tepper School of Business</b> <i>Master of Business Administration</i> Business Analytics Track Concentrations in Business Technologies and Operations Research	Pittsburgh, PA
2014 - 2018	<b>Washington University in St. Louis Olin Business School</b> <i>Bachelor of Science in Business Administration</i> Majors in Marketing and Finance	St. Louis, MO

## Research Interests

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<b>Substantive</b>	Societal consequences of generative AI Human creativity and creative markets in response to AI Data governance & AI policy Design and analysis of human-AI collaborative systems
<b>Methods</b>	Deep Learning Computer vision Large Language Models Multimodal feature extraction Causal inference

## Research

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### Job Market Paper

**Eric B. Zhou;** Dokyun Lee; Gordon Burtch; Daniel Rock; Prasanna Tambe. "Generative AI and Creative Markets: Supply-side Responses to AI Disruption & Data Governance." Preparing for submission to *Management Science*  
\*Manuscript available upon request.

"The emergence of generative artificial intelligence (AI) has sparked debate about its impacts on creative markets, echoing concerns raised following the advent of Adobe Photoshop, which incited fears of labor displacement. However, those earlier innovations spurred new artistic genres and, ultimately, market expansion. We examine how digital creators respond to the emergence of AI tools and consequent data governance concerns, and how these choices reshape competition in creative markets. Using data from

one of the largest industry art platforms, we find that AI-assisted creators intensify portfolio-building activities to strengthen their labor market position while creators sensitive to data governance, i.e., who opt out of serving AI training datasets, withdraw from portfolio competition. To understand how creators strategically adapt their portfolios in response to competitive disruption, we leverage Visual-Concept Modeling, a multimodal feature extraction approach for characterizing prototypical artifact types based on visual and conceptual elements. We identify a concentration of homogenized content, specifically character concept art, driven by AI adoption, while AI-sensitive creators, particularly freelancers and new entrants, reduce production in AI-dominated genres without substituting for other artifact types. These findings suggest that the allowance of AI and risk of creators' work being appropriated for AI training may undermine creators' incentives to participate in the market, highlighting the urgent need for policy clarity to foster the long-term sustainability of creative ecosystems."

## Publications

1. **Eric B. Zhou;** Dokyun Lee; Bin Gu. "Who Expands the Human Creative Frontier with Generative AI?"

Published at *Science Advances* (September 2025)

Available at [[SSRN](#)] and [[Science Advances](#)]

"Artists are rapidly integrating generative text-to-image models into their workflows, yet how this human-AI collaboration affects creative discovery remains unclear. Leveraging large-scale data from an online art platform, we compare AI-assisted creators to matched non-adopters to assess novel idea contributions. Initially, generative AI increases novelty among a concentrated subset of artists, driven primarily by substantial productivity gains; however, marginal novelty per artifact declines post-adoption, reflecting a shift toward high-volume, incremental exploration, ultimately yielding a greater aggregate of novel artifacts by AI adopters. We observe no evidence of a human-AI complementarity effect beyond productivity-driven gains. Notably, the release of open-source Stable Diffusion accelerates novel contributions across a broader, more diverse group, suggesting that text-to-image tools facilitate exploration at scale, initially enabling persistent breakthroughs by a select "mastermind" group, driven by substantial volume increases, and subsequently enabling widespread novel contributions from an emergent "hivemind" of artists."

2. **Eric B. Zhou;** Dokyun Lee. "Generative Artificial Intelligence, Human Creativity, and Art."

Published at *Proceedings of the National Academy of Sciences Nexus* (March 2024)

**\*Ranked among the most read and cited articles on PNAS Nexus**

Available at [[SSRN](#)] and [[PNAS Nexus](#)].

"Recent artificial intelligence (AI) tools have demonstrated their ability to produce outputs traditionally considered creative. One such system is text-to-image generative AI, which automates humans' execution to generate high-quality digital artworks. Utilizing a dataset of over 4 million artworks from more than 50,000 unique users, our research shows that text-to-image AI substantially enhances human creative productivity by 25% and increases the likelihood of receiving a favorite per view by a similar percentage. While peak artwork content novelty (focal objects and object relationships) increases over time, average content novelty declines, suggesting an expanding but inefficient creative space. Additionally, there is a consistent reduction in visual novelty (pixel-level stylistic elements). Importantly, AI-assisted artists who can produce more novel ideas, regardless of overall novelty prior to adoption, produce artworks that their peers evaluate more favorably. The results imply that ideation and likely filtering are necessary skills in the text-to-image process, thus giving rise to "generative synesthesia" - the harmonious blending of human senses and AI mechanics to discover new creative workflow."

## Works in Progress

1. **Eric B. Zhou.** "Evaluating Human Creativity Under Permissive vs. Prohibitive Data Governance Regimes." *Data collection*
2. **Eric B. Zhou;** Stefano Puntoni. "Understanding Human vs. AI Value Attribution in Collectors' Art Markets." *Data collection*

3. **Eric B. Zhou**; Gordon Scott. "Creative Career Trajectories & Reskilling in Response to Generative AI." *Data exploration*
4. Avery Chen; **Eric B. Zhou**; Yingkang Xie. Reboot of: "Economic Value of Image-Based Seller Quality Signals." *Analysis*
5. **Eric B. Zhou**; Xiang Hui; Dokyun Lee. "Economic Value of Image-Based Seller Quality Signals." **Workshop on Information Systems and Economics (WISE) 2022 Best Student Paper Finalist**  
 "In online marketplaces, sellers can rely on alternative mechanisms to signal their quality when they lack rich transaction histories. Using scraped data on GPU sales from eBay, we find that certain image signals can substitute for reputation to increase conversion rates amongst sellers with less than 100% positive reputation, and conditional on making a sale, can realize a 5% price premium on average. However, the effects are only significant for less reputable sellers."

## Invited Talks

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**Eric B. Zhou**; Dokyun Lee; Bin Gu. "Who Expands the Human Creative Frontier with Generative AI?"  
 Jul. 2025 | Technical University of Munich GenAI Lab (virtual)

**Eric B. Zhou**; Dokyun Lee. "Generative Artificial Intelligence, Human Creativity, and Art."  
 Apr. 2024 | Cornell Information Science Seminar (virtual)

## Conference & Workshop Presentations

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\*Accepted but not attend; †Invited speaker

**Eric B. Zhou**; Dokyun Lee; Gordon Burtch; Daniel Rock; Prasanna Tambe. "Generative AI and Creative Markets: Supply-side Responses to AI Disruption & Data Governance."  
 Mar. 2025 | *Artificial Intelligence in Management (AIM) Conference* at Los Angeles, CA  
 May 2025 | *Wharton AI and the Future of Work* at Philadelphia, PA  
 Jun. 2025 | \**Marketing Science Conference* at Washington, DC  
 Jun. 2025 | \**Symposium on Statistical Challenges in Electronic Commerce Research* at Cyprus, Greece  
 Jul. 2025 | †*Academy of Management Annual Meeting* at Copenhagen, Denmark  
 Sep. 2025 | [Plenary] *Wharton People & Organizations Conference* at Philadelphia, PA  
 Oct. 2025 | †*USC x BU PhD Platform Strategy Workshop* at Boston, MA  
 Oct. 2025 | †*INFORMS Annual Meeting* at Atlanta, GA  
 Dec. 2025 | \**Conference on AI, ML, and Business Analytics* at New York, NY  
 Dec. 2025 | *Workshop on Information Systems and Economics (WISE)* at Nashville, TN

**Eric B. Zhou**; Dokyun Lee; Bin Gu. "Who Expands the Human Creative Frontier with Generative AI?"  
 May 2024 | *Wharton AI and the Future of Work* at Philadelphia, PA  
 Aug. 2024 | †*Academy of Management Annual Meeting* at Chicago, IL  
 Sep. 2024 | *Wharton Business & Generative AI Workshop* at San Francisco, CA  
 Oct. 2024 | *Conference on Information Systems and Technology (CIST)* at Seattle, WA  
 Dec. 2024 | *Conference on AI, ML, and Business Analytics* at New Haven, CT  
 Jun. 2025 | \**Symposium on Statistical Challenges in Electronic Commerce Research* at Cyprus, Greece

**Eric B. Zhou**; Dokyun Lee. "Generative Artificial Intelligence, Human Creativity, and Art."  
 Sep. 2023 | *Wharton Business & Generative AI Workshop* at San Francisco, CA  
 Oct. 2023 | *INFORMS Workshop on Data Science* at Phoenix, AZ  
 Oct. 2023 | †*INFORMS Annual Meeting* at Phoenix, AZ

**Eric B. Zhou**; Xiang Hui; Dokyun Lee. "Economics of Image-Based Seller Quality Signals."

Dec. 2022 | Workshop on Information Systems and Economics (WISE) at Copenhagen, DK  
**Best Student Paper Finalist**

Dokyun Lee; **Eric B. Zhou**; Chengfeng Mao; Gerald Kane. "Interpretable Machine Learning for Theory Building"  
Aug. 2020 | MISQ Author Workshop at virtual

## Awards

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Dec. 2025	WISE 2025 Best Paper Finalist
Nov. 2025	MSI Alden G. Clayton Dissertation Competition honorable mention
Oct. 2025	ISS Doctorial Consortium
May 2024	Marketing Science Institute Research Grant (\$5,000)
May 2024	Questrom Outstanding Research Award
Feb. 2024	Nominated: Falling Walls Science Breakthrough of the Year in Art & Science
Oct. 2023	INFORMS Gold Student Scholarship
Sep. 2023	Questrom School of Business Doctoral Fellowship
Dec. 2022	WISE 2022 Best Student Paper Finalist
Aug. 2021	Olin Business School Doctoral Fellowship
Feb. 2019	Nielsen BASES Client Service Superstar Award

## Professional Service

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### Reviewer

*Proceedings of the National Academy of Sciences Nexus Management Science*  
*Information Systems Research*  
*Harvard Data Science Review*  
*Internet Research*  
*Hawaii International Conference on System Sciences (HICSS)*

## Teaching Experience

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Spring 2025	<b>IS 223: Introduction to Information Systems</b> Lead Instructor Instructor Rating: 4.64/5 (44 out of 54 respondents)
Spring 2023	<b>DAT 500W: A/B Testing in Business</b> Head Teaching Assistant Taught by Xiang Hui and Christopher Mondy

## Industry Experience

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2021 - 2023	<b>Machine Learning Contractor</b> Angel Flights West	Santa Monica, CA (Remote)
2018 - 2019	<b>Research Analyst, Product Innovation Analytics</b> Nielsen BASES	Wilton, CT

## Skills

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## Coursework

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Fall 2020	Seminar in Business Technologies (neural language models, philosophy, & economics of AI)
Fall 2021	Microeconomics I Empirical Methods in Business: Part B (Advanced Econometrics) Seminar in Marketing
Spring 2022	Microeconomics II Causal Inference Analytical Modeling in Marketing: Part A Empirical Methods in Structural Modeling
Fall 2022	Empirical Methods in Business: Part A Seminar in Strategy & Organization Experimental and Behavioral Research Methods: Part A
Spring 2023	Seminar in Strategic Management of Innovation & Technology Seminar in Strategy Independent Study in Strategy: Creativity
Fall 2023	Applied Machine Learning Seminar in Generative AI and Causal Inference with Text
Spring 2024	Seminar in Economics of Information Systems

## References

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