JIETENG CHEN

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Education	The Chinese University of Hong Kong Ph.D. in Marketing	2021 - 2026 (Expected)
	Yale University Visiting Student	2024 - 2025
	Xiamen University B.A. in Economics	2017 - 2021
Research Interests	Economics of AI, Generative AI, Online Platforms, I	ndustrial Organization
Job Market Paper	 "Designing Detection Algorithms for AI-Generate Creator Incentives, and Platform Strategy" [Link] 	d Content: Consumer Inference,
	Jieteng Chen , T. Tony Ke, and Jiwoong Shin <i>Under Review</i>	
Publication	2. "Regulating Digital Piracy Consumption" [Link] Jieteng Chen, Yuetao Gao and T. Tony Ke Journal of Marketing Research, (2024)	
Working Papers	3. "From Canvas to Blockchain: Impact of Royalties Xinyu Cao, Jieteng Chen , and T. Tony Ke (Equal <i>Minor Revision</i> at <i>Management Science</i>	• • • • • • • • • • • • • • • • • • • •
	 "More Than a Match: Balancing Match Quality a Algorithm on Gig Platforms" [<i>Link</i>] Jieteng Chen and Chongyan Sun 	and Labor Supply via Allocation
	"Data Externalities and Data Acquisition by Onlin Jieteng Chen and T. Tony Ke	ne Platforms" [<i>Link</i>]
Grants	National Natural Science Foundation of China, Rese	
	"Privacy Leakage and Platform Regulation", PI,	(300,000 RMB) 2025-2027
	The Chinese University of Hong Kong, Graduate Re "Algorithmic Detection by Content Platforms", I "Regulating Digital Piracy", PI, (20,000 HKD)	

Honors & Awards	, , ,		2025
	Reaching Out Award, The Chinese University of Hong Kong, (10,000 HKD)		2025
	ISMS Doctoral Consortium Fellow		2025
Invited Talks	Shanghai Jiao Tong University (scheduled)		Oct 2025
	Shanghai University of Finance and Economics (scheduled)		oct 2025
	Peking University, National School of Development		pt 2025
	Chinese University of Hong Kong		pt 2025
Conference	The 47th ISMS Marketing Science Conference, Washington DC		2025
Presentations	Chinese Marketing Association Annual Conference, Jinan		2025
	Chinese Marketing Association Annual Conference, Changsha		2024
	Asia-Pacific Marketing Academy Conference, Hong Kong		2024
	The 46th ISMS Marketing Science Conference, Sydney		2024
	Asia-Pacific Industrial Organization Conference, Hong Kong		2023
	Asia-Pacific Marketing Academy Conference, Guangzhou The 45th ISMS Marketing Science Conference, Miami		2023
			2023
Teaching Experience	Marketing Research (Undergrad), Tutorial Instructor (for R and SPSS Programming) 2025		
	Teaching Evaluation: 5.5/6.0; Recognized as an Excellent TA by CUHK		
	Marketing Management (MBA), Teaching Assistant		2023
Service Work	Ad-hoc Reviewer for Marketing Science		
References	T. Tony Ke (Advisor) Professor of Marketing The Chinese University of Hong Kong tonyke@cuhk.edu.hk (+852) 3943-8565 Jiwoong Shin Professor of Marketing Yale University jiwoong.shin@yale.edu (+1) 203-432-6665	Xinyu Cao Associate Professor of Marketin The Chinese University of Hong ☑ xinyucao@cuhk.edu.hk ✔ (+852) 3943-7829	_

SELECTED GRADUATE COURSEWORK **Economics**

Microeconomic Theory I Microeconomic Theory II

Econometric Theory and Application

Applied Econometrics

Theory of Industrial Organization (HKUST) Empirical Industrial Organization (HKUST)

Game Theory

Review of Quantitative Methods

Advanced Microeconomic Theory (Yale, audit)

Industrial Organization I (Yale, audit)

Marketing

Analytical Modeling in Marketing

Empirical Modeling in Marketing Marketing Models (CityU) Special Topics in Marketing I Special Topics in Marketing II

Behavioral Studies in Marketing Research Methodology in Behavioural Studies Empirical Methods in Marketing (Yale, audit)

Computer Science, Statistics, Optimization

Foundation of Optimization Advanced Statistical Computing Machine Learning (CityU) Applied Deep Learning (CityU) Jimmy Chan Wei He Xun Lu Qingliang Fan Pakhung Au Kohei Kawaguchi

Duozhe Li & Murayama Kota

Kam Chau Wong

Roberto Corrao & Kai Hao Yang Phil Haile & Charles Hodgson

T. Tony Ke

Francisco Cisternas

Liang Guo Sha Yang Ganesh Iyer Xianchi Dai Jessica Kwong K. Sudhir

Man Cho So Yingying Wei Anthony Chan Po Lai Man

Paper Abstract

"Designing Detection Algorithms for Al-Generated Content: Consumer Inference, Creator Incentives, and Platform Strategy" (Job Market Paper)

Generative AI has transformed content creation, enhancing efficiency and scalability across media platforms. However, it also introduces substantial risks, particularly the spread of misinformation that can undermine consumer trust and platform credibility. In response, platforms deploy detection algorithms to distinguish AI-generated from humancreated content, but these systems face inherent trade-offs: aggressive detection lowers false negatives (failing to detect AI-generated content) but raises false positives (misclassifying human content), discouraging good creators. Conversely, conservative detection protects creators but weakens the informational value of labels, eroding consumer trust. We develop a model in which a platform sets the detection threshold, consumers form beliefs from content labels and decide whether to engage, and creators choose whether to adopt AI and how much effort to exert to create content. A central insight is that detection does not affect outcomes continuously: instead, equilibrium structure shifts discontinuously as the threshold changes. At low thresholds, consumers trust human labels and partially engage with AI-labeled content, disciplining AI misuse and boosting engagement. But when detection threshold becomes higher, this inference breaks down, AI adoption rises, and both trust and engagement collapse. Thus, the platform's optimal detection strategy balances these risks, influencing content creation incentives, consumer beliefs, and overall welfare.

PAPER ABSTRACT

"Regulating Digital Piracy Consumption", Journal of Marketing Research (2024)

Regulators across the globe have imposed penalties on consumers for digital piracy consumption. Contrary to expectations, however, digital piracy consumption has continued to grow. The authors develop a simple model of competition between a copyright holder and a pirate firm to offer a plausible account for this observation as well as actionable guidelines for optimal regulation design. The core of this idea is to endogenize the pirate firm's strategic investment in antitracking technologies that help consumers evade a regulator's penalty. The authors find that as the penalty rises, piracy consumption can surprisingly increase after decreasing first; relatedly, the copyright holder and the society may suffer from tighter regulation. Depending on the cost of antitracking technologies of the pirate firm, the regulator optimally sets the penalty to operate in two different regimes. When the technology is available at a low cost, the regulator can achieve the goals of maximizing social welfare and minimizing piracy consumption simultaneously by setting a moderate penalty that maximizes consumers' expected penalty and tolerates some level of piracy consumption. In contrast, when the technology is costly, the regulator should set a relatively high penalty to completely impede piracy supply. Additionally, the authors show that supply-side regulation does not substitute away demand-side regulation, and educating consumers about copyright protection may unintentionally lead to an increase in piracy consumption. Last, the authors identify complex nonmonotonic long-run effects of piracy consumption regulation on the copyright holder's incentives for content creation and copyright protection.

"From Canvas to Blockchain: Impact of Royalties on Art Market Efficiency", Minor Revision at Management Science

Since the advocacy for droit de suite in France in the 1890s, policymakers and the public have recognized artworks as intellectual property and sought to grant artists resale royalties—yet encountered heated debates and various logistical obstacles. The emergence of blockchain technology now makes automated royalty collection feasible. We examine the impact of resale royalties on artists' pricing decisions and the overall efficiency of the art market. We build an infinite-horizon model in which an artist sells her artwork in the primary market, after which it can be resold in a sequence of secondary markets. We find that when artwork popularity is public information, royalties—acting as a tax on resalesreduce the artwork's resale value and transaction volume, lowering the artist's profit and leaving all market participants worse off. However, when the artist possesses superior information about artwork popularity compared to buyers, a popular artist may set an inefficiently high price to signal their appeal, which hurts primary market efficiency. In this case, royalties benefit the popular artist by reducing the unpopular artist's incentive to mimic, thereby mitigating price distortion in the primary market. Consequently, the profit of a popular artist first increases and then decreases with the royalty rate, peaking at a unique positive rate. Social welfare may either rise or fall with the royalty rate, depending on whether the reduction in primary-market price distortion outweighs the deadweight loss in resale markets.

"More Than a Match: Balancing Match Quality and Labor Supply via Allocation Algorithm on Gig Platforms"

Gig platforms often match demand to supply via allocation algorithms that prioritize workers who provide high-quality service. Using data from a large on-demand delivery platform that matches shippers with independent drivers, we document how the prioritization allocation mechanism directs more orders toward high-quality drivers, improving customer satisfaction and leading to higher hourly earnings for these drivers. To evaluate the welfare implications of such an allocation algorithm and explore its optimal design, we develop a structural model that nests quality-based prioritization in a frictional matching environment with endogenous labor supply. Counterfactual analyses reveal a central trade-off in the design of allocation algorithms: prioritizing high-quality workers can improve match quality and customer satisfaction, but also depress earning opportunities for low-quality workers and discourage their participation, which may shrink total labor supply and ultimately erode platform profitability. Our findings underscore the importance of balancing match quality with labor supply in the design of allocation algorithms.

Paper Abstract

"Data Externalities and Data Acquisition by Online Platforms"

In the digital era, platforms actively acquire consumer data to improve match efficiency between the two sides. Under the prevalent privacy regulations, the platform can only obtain consumer data upon their consent. However, even if a consumer opts out of the data collection, their information can still be leaked by others' data sharing because a consumer's data are predictive of others' preferences, thereby generating data externalities. This paper investigates the platform's optimal data acquisition strategy under privacy rights and data externality. We find that the platform compensates consumers who share data based on the consumption utility difference between sharing and not sharing data, which is endogenously affected by others' data sharing. In equilibrium, the platform balances the benefit of data to optimize match efficiency through personalized recommendations against the cost of data acquisition. As information correlation increases, the benefit of individual data for learning this specific consumer's preference declines because the information could be more accurately predicted from others' data. Conversely, the value of individual data for predicting other ones' preferences is enhanced, and the costs of data acquisition are lower. Consequently, the platform may acquire data from more or fewer consumers as the information correlation rises. We also discuss the implications for platform profit, consumer surplus, and social welfare.

Last update: 2025 Sept