



CRYPTO AND BLOCKCHAIN ECONOMICS RESEARCH FORUM

CBER Crafting the Cryptoeconomy Conference

Hosted by Columbia University's Center for Digital Finance and Technologies

Sponsored by Avalanche Foundation and Uniswap Foundation

New York, NY

October 25-26, 2024

In collaboration with Columbia University's Center for Digital Finance and Technologies, Boston University's Digital Business Institute at the Questrom School of Business, Ecole Polytechnique, FinTech at Cornell - an Initiative of the SC Johnson College of Business, the FinTech Research Center at the University of Florida, the NYU Stern School of Business, and the University of Toronto Rotman School of Management's FinHub

October 25th: Workshop Day

Welcome and Opening Remarks	8:00 am – 8:10 am
Agostino Capponi, Columbia University	
CBER CtCe Research Funding Announcement	
Andreas Park, University of Toronto and Fahad Saleh, University of Florida	
AMMs and Uniswap v4	
Session Chair: Xin Wan, Uniswap Labs	
<ul style="list-style-type: none">• <i>Economics of Automated Market Makers</i> Andreas Park, University of Toronto• <i>Overview of Uniswap v4</i> Fahad Saleh, University of Florida	
Coffee Break	
Maximal Extractable Value	
Session Chair: Nir Chemaya, University of California Santa Barbara	
<ul style="list-style-type: none">• <i>Overview of Maximal Extractable Value</i> Ciamac Moallemi, Columbia University• <i>Mitigation Techniques for Maximal Extractable Value</i> Julian Ma, Ethereum Foundation	



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Lunch Eigen Layer Presentation	11:30 am – 1:00 pm
Roll Ups Session Chair: Aviv Yaish, Yale University • <i>Overview of Rollups</i> Ed Felten, Offchain Labs • <i>Hook Design for Rollups</i> TBD	1:00 pm – 2:30 pm
Coffee Break	2:30 pm – 2:45 pm
Order Flow Auctions Session Chair: Mahendrarajah Nimalendran, University of Florida • <i>Market Microstructure Concepts for Cryptoeconomics</i> Joel Hasbrouck, NYU Stern • <i>The Ecosystem of OFAs in the Cryptoeconomy</i> Brad Bachu, Uniswap Labs	2:45 pm – 4:15 pm
Real-World Hook Design Session Chair: Kenneth Ng, Uniswap Foundation • <i>MEV-Aware Hook Design</i> Karthik Srinivasan, Sorella Labs • <i>TBD</i> TBD	4:15 pm – 5:00 pm
Concluding Remarks George Deodatis, Vice Dean for Research at Columbia Engineering	5:00 pm – 5:15 pm

October 26th: Research Day

Panel: “Evolution of Decentralized Exchange: Risks, Benefits, and Oversight” Moderator: Troy Paredes, Former SEC Commissioner and Founder, Paredes Strategies LLC Session Panelists: • Campbell Harvey, Duke University (Author) • Brian Nistler, Uniswap Foundation (Discussant) • TBD (Discussant)	8:30 am - 9:15 am
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Coffee Break

9:15 am – 9:30 am

Privacy in the Cryptoeconomy

9:30 am – 10:30 am

Session Chair: Yuliya Guseva, Rutgers University

Regulating Decentralized Systems: Evidence from Sanctions on Tornado Cash

- Anders Brownworth, Radius Inc.
- Jon Durfee, Federal Reserve Bank of New York
- Michael Junho Lee, Federal Reserve Bank of New York
- Antoine Martin, Swiss National Bank

Discussant: Alfred Lehar, University of Calgary

Blockchain Privacy and Regulatory Compliance: Towards a Practical Equilibrium

- Vitalik Buterin, Ethereum Foundation
- Jacob Illum, Chainalysis
- Matthias Nadler, University of Basel
- Fabian Schär, University of Basel
- Ameen Soleimani, Privacy Pools

Discussant: Jiasun Li, George Mason University

Coffee Break

10:30 am – 10:45 am

Special Session

10:45 am – 11:30 am

Zero Knowledge: Introduction and DeFi Implications

Benedikt Bünz, New York University

Lunch with 2nd CBER-Circle Insight Award Presentation

11:30 am – 1:00 pm

Moderator: Gordon Liao, Circle

Keynote Address

1:00 pm - 1:45 pm

Moderator: Kose John, NYU Stern

Do Cryptocurrencies Matter From An Economic Perspective?

Bruno Biais
Professor of Finance, HEC Paris

Coffee Break

1:45 pm – 2:00 pm



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Decentralized Exchanges Session Chair: Evgeny Lyandres, Tel Aviv University <i>Automated Market Makers and the Value of Adaptive Fees</i> <ul style="list-style-type: none">• David Cao, University of Pennsylvania• Brett Hemenway Falk, University of Pennsylvania• Gerry Tsoukalas, Boston University Discussant: Alex Nezlobin, London School of Economics <i>An Analysis of Intent-Based Markets</i> <ul style="list-style-type: none">• Tarun Chitra, Gauntlet• Kshitij Kulkarni, UC Berkeley• Mallesh Pai, Rice University• Theo Diamandis, MIT Discussant: Andrea Canidio, CoW Protocol	2:00 pm – 3:00 pm
Research Paper Session	3:00 pm – 4:00 pm
Coffee Break	4:00 pm – 4:15 pm
Panel: “Economic Limits of Permissionless Consensus” Moderator: Hanna Halaburda, NYU Stern Session Panelists: <ul style="list-style-type: none">• Tim Roughgarden, Columbia University (Author)• Katya Malinova, McMaster University (Discussant)• TBD (Discussant)	4:15 pm – 5:00 pm
CBER Forum Announcements Andreas Park, University of Toronto and Fahad Saleh, University of Florida	5:00 pm – 5:10 pm
Concluding Remarks Agostino Capponi, Columbia University	5:10 pm – 5:15 pm



CRYPTO AND BLOCKCHAIN ECONOMICS RESEARCH FORUM

Organizers

Agostino Capponi Nir Chemaya
Columbia University UC, Santa Barbara

Kose John Barnabé Monnot Andreas Park
NYU Stern Ethereum Foundation U of Toronto

Fahad Saleh Lee Schneider Aviv Yaish
U of Florida Ava Labs Yale U

Advisory Committee

Bitá Abol Brad Bachu Lin William Cong Hanna Halaburda
Uniswap Foundation Uniswap Labs Cornell University NYU Stern

Gordon Liao Ciamac Moallemi Andy Naranjo Mike Neuder
Circle Columbia University University of Florida Ethereum Foundation

Kenneth Ng Brett Palatiello Julien Prat Gerry Tsoukalas
Uniswap Foundation Eigen Labs Ecole Polytechnique Boston University

Xin Wan David Yermack
Uniswap Labs NYU Stern

CBER-Circle Insight Selection Committee

Agostino Capponi Andreas Park Hanna Halaburda Gordon Liao Evgeny Lyandres
Columbia University U of Toronto NYU Stern Circle Tel Aviv University