

# Liquidity Unleashed: A Research-driven Analysis of Post-Shanghai LSDs

ETHChicago 2023

Mingxuan He  
mingxuanh.eth

Phoenix graduate scholar (computational economics), University of Chicago  
Research fellow, Nethermind

August 1, 2023

# Ethereum Staking Basics

- Consensus layer rewards: Attestation, block proposal, sync committee
- Execution layer rewards: Txn fee (EIP-1559), MEV

data: Rewards chart

# The Merge and Shapella Upgrade

# LSDs in 2023

Data: Dune Analytics

# Liquid Staking Pools as Banks

	Banks	Liquid Staking Pools
Invests in	Loans	Beacon Chain
Deposits	Deposits	ETH Deposits

# Supply and Demand Analysis

# How Liquid are LSDs, Really?

Introducing quantitative measures of liquidity queues

# Risks

- Liquidity risk: e.g. CRV exploit (this July)
- Price risk: e.g. ETH price drop
- Bank runs



# More Risks

- APR drop
- Inflationary ETH

# LSD Risk Simulations

# References I

- Diamond, D. W. (2007). Banks and liquidity creation: A simple exposition of the diamond-dybvig model. *FRB Richmond Economic Quarterly*, 93(2), 189–200.
- Diamond, D. W., & Dybvig, P. H. (1983). Bank runs, deposit insurance, and liquidity. *Journal of political economy*, 91(3), 401–419.