



ISTS VeChain BlockChain Technology Workshop May 16th and 17th



The Institute for Security, Technology, and Society (ISTS) in conjunction with the VeChain Foundation is hosting a two-day workshop on blockchain technology. The workshop will be held at Dowd's Country Inn in Lyme, NH on May 16th and 17th, 2019. Attendance is open to all Dartmouth students, faculty, postdocs, and research staff. **The deadline for receiving applications is April 25th.** Attendance at this workshop is strictly limited. If you are interested in attending, please e-mail Julie Gilman at Julie.B.Gilman@dartmouth.edu. Please include the following:

- Full Name
- Dartmouth Affiliation
- Phone Number
- Email Address
- A brief paragraph on why you would like to attend this workshop

Agenda

Thursday, May 16, 2019

0800-0830: Registration

0830-0845: Introductions and Welcome

0845-0945: Introduction to Blockchain and Bitcoin I (Jonathan Katz, *University of Maryland*)

0945-1000: Break

1000-1100: Introduction to Blockchain and Bitcoin II (Jonathan Katz, *University of Maryland*)

1100-1115: Break

1115-1215: From Research to Results: Creating Real World Adoption to Blockchain Technology (Jason Rockwood and Peter Zhou, *VeChain*)

1215-1315: Lunch

1315-1415: Introduction to Ethereum and Smart Contracts (Joe Bonneau, *New York University*)

1430-1445: Break

1445-1545: Blockchain Incentives and Economics (Joe Bonneau, *New York University*)

1545-1600: Break

1600-1700: Predicting Cryptocurrency Prices (V.S. Subrahmanian, *Dartmouth College*)

Friday, May 17, 2019

0800-0900: Breakfast

0900-0930: On the Scalability of Blockchain Consensus Algorithms (Zhijie Ren, *VeChain*)

0930-1030: Proof of Stake-based Consensus (Foteini Baldimtsi, *George Mason University*)

1030-1100: Break

1100-1200: Off-chain Solutions for Scalability and Alternative Blockchain Designs (Foteini Baldimtsi, *George Mason University*)

1200-1300: Lunch and Final Remarks

Speaker Bios

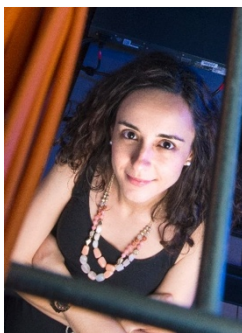


Jonathan Katz is a professor of computer science at the University of Maryland, where he also serves as the director of the Maryland Cybersecurity Center. His research interests lie broadly in the fields of cryptography, distributed systems, privacy, and game theory. Well known for his widely used textbook *Introduction to Modern Cryptography*, now in its second edition, he has also served as the program chair for the annual Crypto conference, and currently serves as the program chair for the ACM Conference on Computer and Communications Security as well as an editor of the *Journal of Cryptology*.

Katz received a Humboldt Research Award in 2015, and the University of Maryland Distinguished Scholar-Teacher Award in 2017. He was named a fellow of the IACR in 2019.



Joseph Bonneau is an Assistant Professor of Computer Science at NYU. He focuses on applied cryptography and computer security. He is a co-author of the textbook *Bitcoin and Cryptocurrency Technologies* and advises several companies in the blockchain industry. He holds a doctorate from the University of Cambridge and a BS/MS from Stanford. He has taught at Princeton and Stanford and worked at Google and the Electronic Frontier Foundation.



Foteini Baldimtsi is an Assistant Professor in the Computer Science Department at George Mason University. She received her Ph.D. from Brown University in May 2014 and worked as a postdoctoral researcher at Boston University and the University of Athens. Her research interests are in the areas of cryptography, security and data privacy. She focuses on designing provably secure cryptographic schemes for a variety of applications such as privacy preserving identity management, secure electronic payments and private and scalable blockchain transactions. She is a recipient of an IBM faculty award and her research is supported by NSF, NSA and the Zcash Foundation.