Benedikt Bünz

Education

Developed automated arbitrage trader

Stanford University Stanford, California 2016/9 - 2021 PhD in Computer Science, Advised by Dan Boneh Interests: Applied Cryptography, Security with focus on Cryptocurrencies **Stanford University** Stanford, California <u>2014</u>/9 – 2016/4 MS in Computer Science, GPA - 3.5 Specializations: Artificial Intelligence and Theoretical CS University of Zurich Zurich, Switzerland BS in Computer Science, GPA - 5.5 (1-6 scale), Summa cum laude Bachelor Thesis: Faster Algorithms and Better Payment Rules for Core-Selecting Combinatorial Auctions **Work Experience** Research Positions..... Visa Research Palo Alto, California <u>6</u>/17 to 9/17 Intern, PhD Summer Intern Confidential Smart Contracts University of Zurich Zurich, Switzerland Summer '15 Research Internship, Computing BNEs in Combinatorial Auctions Advised by Sven Seuken and Ben Lubin **Stanford University** Stanford, California Spring '15 Research Assistant, Provisions Dan Boneh Teaching Positions..... **Stanford University** Stanford, California Winter '16 Teaching Assistant, Cryptography (CS 255) Taught by Dan Boneh **Stanford University** Stanford, California Fall '15 Teaching Assistant, Bitcoin and Crypto Currencies (CS 251) Taught by Dan Boneh and Joseph Bonneau University of Zurich Zurich, Switzerland Spring '14 Teaching Assistant, Combinatorial Auctions Taught by Sven Seuken Industry Positions... **BandwidthX** Carlsbad, California 9/13 to 6/15 Independent Contractor, Market Simulation Simulated market mechanisms and bandwidth usage for offloading cellular traffic **Exchange Traded Bitcoin Zurich, Switzerland** 6/13 - 9/13 Intern, Arbitrage Trader

VIA MAT MANAGEMENT AG

IT Project Collaborator

Business Intelligence and Visual Basic development

Kloten, Switzerland <u>6/11</u> – 3/13

Awards and Scholarships

Studienstiftung des Deutschen Volkes

Auslandsstipendium, International studies scholarship

35,000 EUR grant from the German Academic Scholarship Foundation

Zühlke Technology Group AG

Graduate studies scholarship, zuehlke.com

9,000 CHF

University Zurich

Semester Price, uzh.com

Best 30 thesis per semester

Studienstiftung des Deutschen Volkes

German Academic Scholarship Foundation, studienstiftung.de

Awarded to top 0.5% of German students

Bonn, Germany

Schlieren, Switzerland

Zurich, Switzerland

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Bonn, Germany

2016

Language Skills

German: Mother tongue

English: Fluent

Publications

Bünz, Benedikt, Joseph Bonneau, and Steven Goldfeder. Proofs-of-delay and randomness beacons in ethereum. In EEE SECURITY & PRIVACY ON THE BLOCKCHAIN (IEEE S&B), January 2017.

Gaby G Dagher, Bünz, Benedikt, Joseph Bonneau, Jeremy Clark, and Dan Boneh. Provisions: Privacy-preserving proofs of solvency for bitcoin exchanges. In Proceedings of the 22nd ACM SIGSAC Conference on Computer and Communications Security, pages 720-731. ACM, October 2015.

Vitor Bosshard, Bünz, Benedikt, Benjamin Lubin, and Sven Seuken. Computing bayes-nash equilibria in combinatorial auctions with continuous value and action spaces. In IJCAI-17.

Bünz, Benedikt, Sven Seuken, and Benjamin Lubin. A faster core constraint generation algorithm for combinatorial auctions. In AAAI 2015, February 2015.

Benjamin Lubin, Bünz, Benedikt, and Sven Seuken. New core-selecting payment rules with better fairness and incentive properties. In AMMA 2015, July 2015. Extended abstract of working paper.

Interests and Extracuricular Achievements

- o Track Running (800m to 5000m): 5 medals in Swiss Relay and Team Championships, 4:08 mile pr
- o Bike tour across the US www.crazyguyonabike.com/doc/18076
- Travel Current Political Events