

## Education

- Ongoing **Harvard Law School**  
J.D. in progress, joint program with Princeton
- Ongoing **Princeton University, Center for Information Technology Policy (CITP)**  
Ph.D. Computer Science in progress, joint program with Harvard
- May 2020 **University of Texas - Austin, Turing Scholar Honors Program**  
B.S. Computer Science & B.S. Mathematics
- May 2016 **Thomas Jefferson High School for Science and Technology (TJHSST)**

## Work Experience

- Summer 2019 **UT Program Analysis Research Group, Research Assistant, Austin**
  - Presented paper called “*Synthesizing Database Programs for Schema Refactoring*” (third author) at top-tier Programming Languages Design & Implementation (PLDI) conference
  - Implemented prototype tool in Java programming language for paper called “*Data Migration using Datalog Program Synthesis*” (second author) in top-tier Very Large DataBases (VLDB) conference
- Spring 2019 **CS 389L Automated Logical Reasoning (graduate level class), Teaching Assistant**
  - Served as Teaching Assistant for 60 Master’s and Ph.D. students; graded weekly proof-based homeworks; held well-attended weekly office hours; helped grade midterm and final exam
- Summer 2018 **Amazon, Software Engineering Intern, Tokyo, Japan**
  - Elegantly reduced the task of tracking real-time, location-based purchase trends in Amazon order data to leverage an edge-detection algorithm (a traditional machine vision technique)
  - Implemented a service based on above approach using the Java programming language, the Python programming language, the OpenCV library, and Amazon Web Services tools like S3 and EC2
- Summer 2017 **Originate, Software Engineering Intern, New York City**
  - Worked at this software consulting firm in Manhattan on a data center workload analysis contract
  - Generalized and patched distributed computing scripts by coding in the Scala programming language with the Spark framework over Cassandra databases
- Summer 2014, 2015 **MITRE Corporation, Research Assistant, Washington DC**
  - Worked for the Federal Aviation Administration (FAA) at this federally-funded R&D center to improve the Closed Runway Operations Prevention Device (CROPD) which prevents plane crashes
  - Adapted computational linguistics algorithms to call-sign identification task in over 25,000 transmissions; edited strict language model based on air traffic controller’s emerging speech patterns

## Publications

- Sept. 2020 **Data Migration using Datalog Program Synthesis**, Yuepeng Wang, Rushi Shah, Abby Criswell, Rong Pan, Isil Dillig, *Proceedings on Very Large DataBases (VLDB ’20)*
- March 2020 **Texas Felon Disenfranchisement Enables Institutional Racism**, Rushi Shah, *The Daily Texan*
- June 2019 **Synthesizing Database Programs for Schema Refactoring**, Yuepeng Wang, James Dong, Rushi Shah, Isil Dillig, *Programming Languages Design & Implementation (PLDI ’19)*

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## Speaking Engagements

- Dec. 2018 **Moderator**, *Tech & Politics Speaker Series*, Prof. Hovav Shacham on Election Security
- Moderated public conversation with Prof. Shacham on his hacking of airport metal detectors, car computers, & California's election systems, along with the policy implications of his research
- Nov. 2018 **Speaker**, *Math Directed Reading Symposium*, "Gerrymandering Considered Harmful"
- Presented math research survey relating to numeric methods for computing the unfairness of a given election district, along with relevant policy considerations at local, state, and federal level
- Apr. 2018 **Speaker**, *Turing Lightning Talks*, "Voting! For fun & profit."
- Presented to Turing Scholar audience about how STEM students at UT vote at rates about 10% lower than average UT students and empirically motivated why they should work to change that
- February 2018, 2019 **Moderator**, *Great Conversations Gala*, Annette Strauss Institute For Civic Life
- Designated to lead discussion on the technology table at annual charity gala for Annette Strauss Institute For Civic Life; guided conversations about evolving role of technology in civic engagement

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## Leadership

- Jan. 2017 **TX Votes (non-partisan civic engagement)**, *STEM Committee Chair*
- Present
- Threw voter registration drive in Computer Science building; one student registered for every three minutes spent tabling
  - Co-hosted four *Tech & Politics Speaker Series* events with Austin Tech Alliance; invited speakers include Professor Hovav Shacham (Computer Security expert who spoke on integrity of voting systems) and Mark Strama (head of Google Fiber West who spoke on tech lobbying efforts)
  - Trained as Volunteer Deputy Registrar (VDR) and personally registered over 250 voters
- May 2019 **Physics/Math/Astronomy Board for Student Advocacy**, *Math Initiative Lead*
- Present
- Strengthened math major community by increasing communication and relationships between the following niche organizations: the UT (Pure) Math Club, the Society for Industrial & Applied Mathematicians, the Actuarial Science Club, and the Science Teachers of Tomorrow
- Sept. 2017 **Information Systems & Security Society (ISSS)**, *Communications Officer*
- May 2018
- Coordinated weekly messaging for UT's largest Computer Science organization; informed >300 members about Computer Security events like speaker panels and Capture the Flag competitions

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## Awards & Honors

- 2019 **Undergraduate Research Fellow**, *UT Office Undergraduate Research*
- 2019 **VDR 100 Club Award**, *Travis County Tax Office*, for registering 168 voters in one cycle
- 2019 **Eva Stevenson Woods Scholarship**, *UT Unrestricted Endowed Presidential Scholarship*
- 2016 **Gregg & Mariko Zeitlin Scholarship**, *UT Unrestricted Endowed Presidential Scholarship*