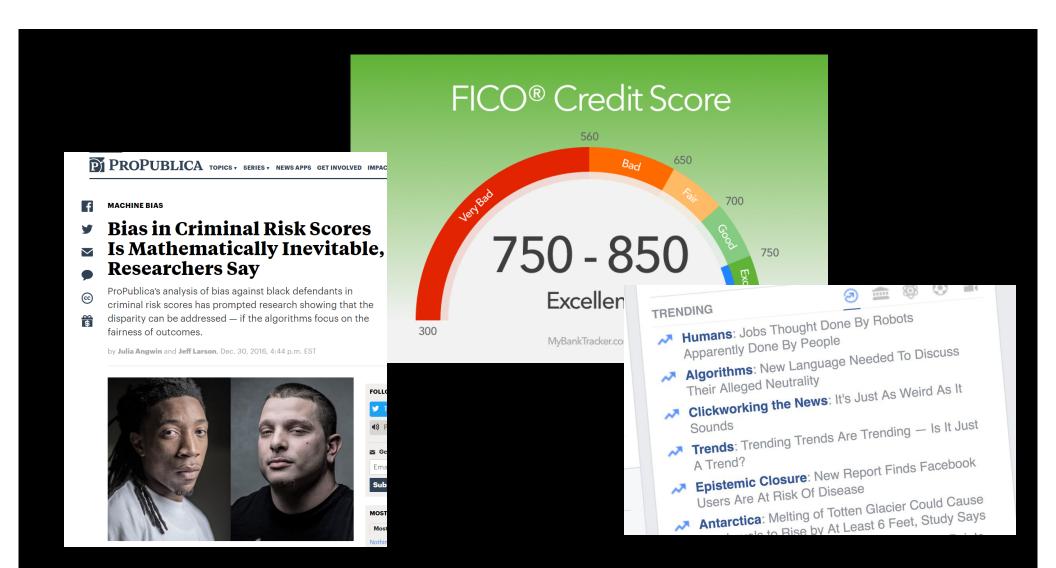
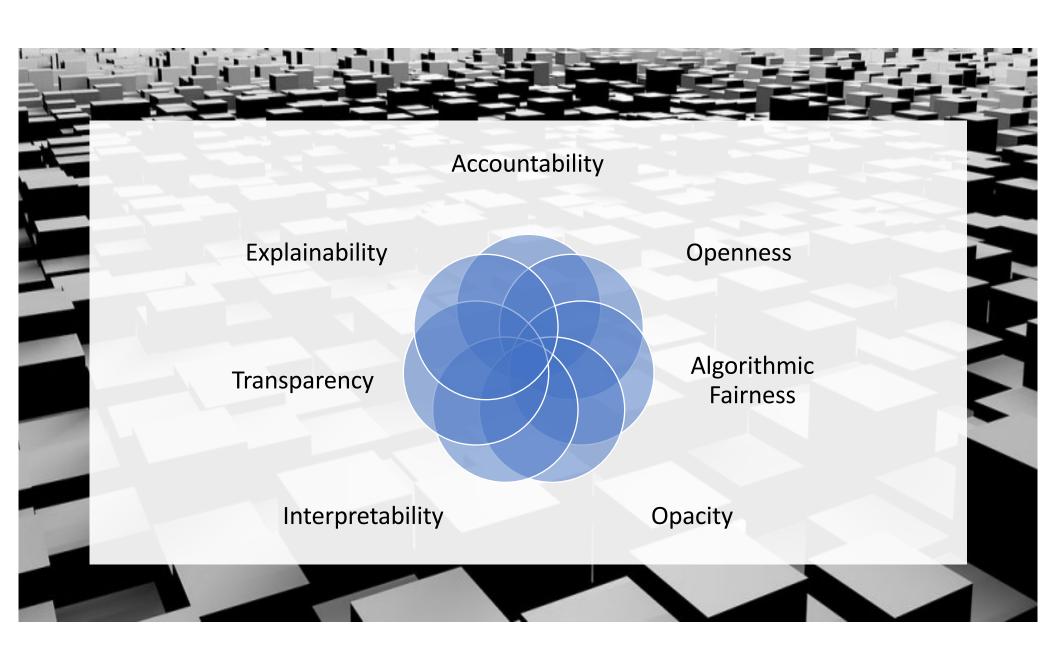
# The Algorithmic Bug Bounty



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### Transparency \( \neq \text{Accountability} \)



### Peeking Beneath the Hood of Uber

Northeastern University Boston, MA leonchen@ccs.neu.edu

Alan Mislove Northeastern University
Boston, MA
amislove@ccs.neu.edu

Christo Wilson Northeastern University Boston, MA cbw@ccs.neu.edu

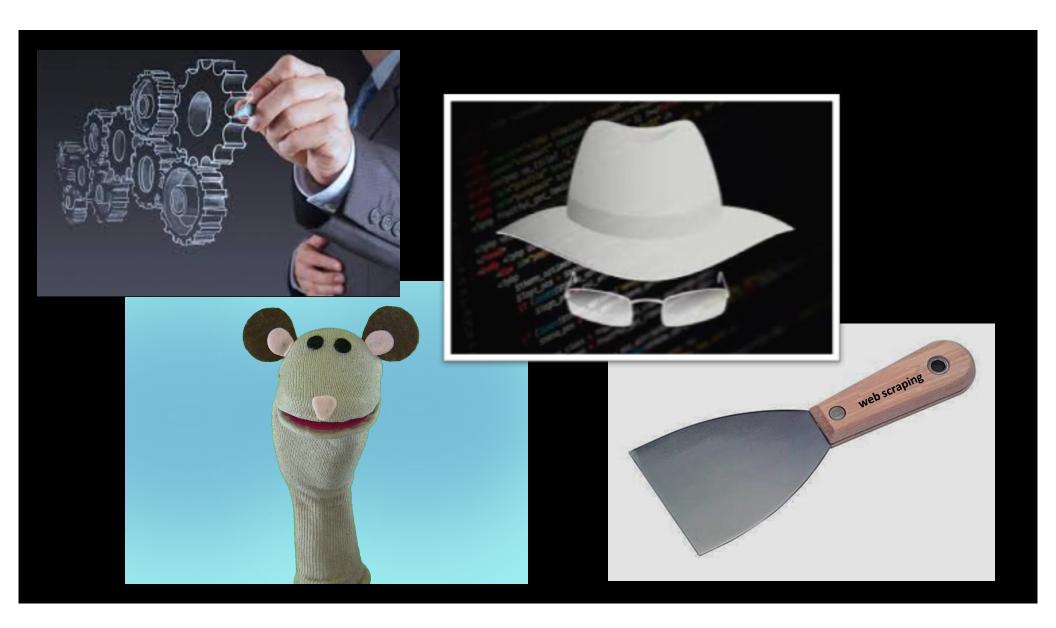
Recently, Uber has emerged as a leader in the "sharing economy" Hher is a "ride sharing" service that matches willing as open platforms, these websites are poised to unlock the productive potential of millions of people.

Uber has emerged as a leader in the sharing economy.

if (\$race = NOT\_CAUCASIAN) then { illegal\_discrimination() };

Auditing Algorithms: Research Methods for Detecting Discrimination on Internet Platforms

Christian Sandvig\*1, Kevin Hamilton2, Karrie Karahalios2, & Cedric Langbort2



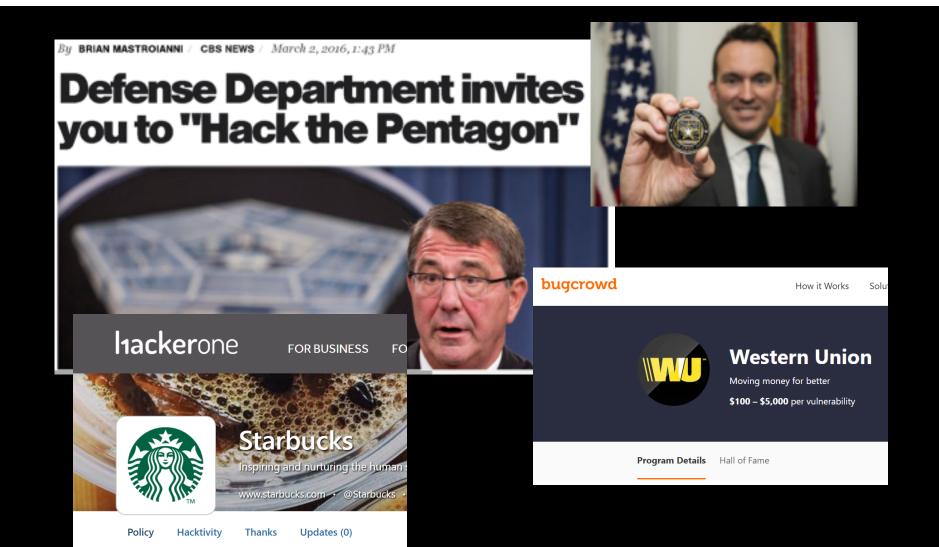


"You will not create more than one personal account"

Facebook, Terms of Service, https://www.facebook.com/terms.php









Home > Contact us > Bug Bounty Program

#### **United Airlines bug bounty program**

Wow! @united really paid out! Got a million miles for my bug bounty submissions! Very cool.

Most recent account activity		
Date	Description	Activity
07/10/2015	United Bug Bounty	1
07/10/2015	United Bug Bounty	999,999



### **Consequences of Complying with This Policy**

We will not pursue civil action or initiate a complaint to law enforcement for accidental, good faith violations of this policy. We consider activities conducted consistent with this policy to constitute "authorized" conduct under the Computer Fraud and Abuse Act. To the extent your activities are inconsistent with certain restrictions in our Acceptable Use Policy, we waive those restrictions for the limited purpose of permitting security research under this policy. We will not bring a DMCA claim against you for circumventing the technological measures we have used to protect the applications in scope.

If legal action is initiated by a third party against you and you have complied with Dropbox's bug bounty policy, Dropbox will take steps to make it known that your actions were conducted in compliance with this policy.

### SANDVIG V. SESSIONS — CHALLENGE TO CFAA PROHIBITION ON UNCOVERING RACIAL DISCRIMINATION ONLINE



IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

CHRISTIAN W. SANDVIG 2117 Washtenaw Avenue Ann Arbor, MI 48104,

KYRATSO KARAHALIOS 1109 S. Douglas Avenue Urbana, IL 61801.

ALAN MISLOVE 5 Grayfield Avenue West Roxbury, MA 02132,

CHRISTOPHER WILSON 46 Symmes Street, No. 3 Roslindale, MA 02131,

FIRST LOOK MEDIA WORKS, INC. 114 Fifth Avenue, 18th Floor New York, NY 10011,

Plaintiffs.

-v.-

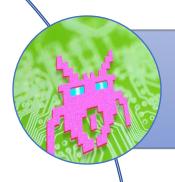
LORETTA LYNCH, in her official capacity as Attorney General of the United States 950 Pennsylvania Avenue, NW Washington, DC 20530,

Defendant.

Case No.

COMPLAINT
FOR DECLARATORY AND
INJUNCTIVE RELIEF





# "Bias Bugs": Fostering at-scale External Auditing



### **Legal Safe Harbors**



### **Building Workforce and Educational Sources**

# We Need Bug Bounties for Bad Algorithms

In the age of algorithmic decision-making, we need to incentivize algorithmic auditors to become our new immune system.



# The Algorithmic Bug Bounty



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