

# STUART RUCKER

<http://stuartrucker.github.io>  
srucker@mit.edu ♦ (480)·444·8510

## EDUCATION

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**Massachusetts Institute of Technology (MIT)** Cambridge, MA  
*Candidate for B.S. in Computer Science, Economics and Data Science | GPA: 5.0/5.0* *Class of 2022*  
· Courses: Design and Analysis of Algorithms, Econometrics, Linear Algebra, Probability, Deep Learning

**Phillips Exeter Academy** Exeter, NH  
*Classical Diploma, Early Cum Laude (GPA: 10.5/11, top 5%)* *Class of 2018*  
· AP: score of 5 on 15 exams | SAT: 1570, Math Level 2 (800), Physics (800)

**Programming Languages:** Python, Tensorflow, Java, C#, Node JS, MATLAB, Web dev

## EXPERIENCE

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**Copenhagen Business School Department of Finance** Copenhagen, Denmark  
*Research Assistant* *Summer 2019*  
· Determined trends in individual risk and time preferences using Python, Tensorflow, and Stata  
· Improved data processing pipelines and incorporated parallel processing to handle variants of Monte Carlo simulations across 100+ million data points describing the Danish population

**MIT Sloan Neuroeconomics Lab** Cambridge, MA  
*Research Assistant* *Spring 2019*  
· Worked alongside Professor Draven Prelec to develop a novel neural network architecture in Python and Tensorflow to quickly compress data inspired by economic incentivization theory

**American Traffic Solutions** Mesa, AZ  
*Data Scientist & Developer* *Summer 2017*  
· Developed machine learning software to automate the processing of images for traffic citations.  
· Used convolutional neural networks in Tensorflow to detect and track components of vehicles

**Pure Chat, Inc** Scottsdale, AZ  
*Software Developer* *Summer 2016*  
· Rearchitected codebase to a micro service-oriented architecture to enhance scalability.  
· Developed automated Selenium/API test scripts to debug and improve software quality.

**TechLab Education, Inc** Silicon Valley, CA  
*Software Developer* *Summer 2015*  
· Developed image processing algorithms to detect diabetes from retinal scans. Technical paper *Rapid, Automated Mosaicking of the Human Corneal Subbasal Nerve Plexus* in Biomed Tech (Berl). 2017 Nov 27;62(6):609-613.

## HONORS / ACTIVITIES

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USA Computing Olympiad (USACO): Platinum Division *2016*  
USA Physics Olympiad (USAPhO): Silver Medal *2017*  
Conrad Foundation Spirit of Innovation Challenge International Winner: Power Pitch Award *2017*  
College Board: NH AP State Scholar (male with most APs in NH) *2017*  
MIT Varsity Squash Team *2018-*