

Sanjit Bhat | Curriculum Vitae

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Education

- **Acton-Boxborough Regional High School** **Acton, MA**
Weighted GPA: 4.4/5.0, Unweighted GPA: 3.9/4.0 *Fall 2015–Present*
 - 2018–19 Courses: AP Statistics, Chemistry, English Literature, Spanish Language, Psychology
 - ACT Composite (34/36); SAT Subject Tests: Math II (800/800), Biology E (790/800)
 - Completed APs: BC Calculus (5/5), Computer Science A (5/5), Physics C: Mechanics (5/5), U.S. History (5/5)
- **Harvard University Extension School** **Cambridge, MA**
Multivariable Calculus (In Progress) *Fall 2018*
- **AlphaStar Academy** **Santa Clara, CA**
USA Computing Olympiad (USACO) Silver, Gold, and Platinum courses *Summer 2016–Summer 2017*
Learned computational geometry, data structures, search techniques, graph algorithms, and dynamic programming

Extra-Curricular Activities

- **MIT Program for Research in Math, Engineering, and Science (PRIMES)** **Cambridge, MA**
Highly-selective year-long high school research program *Jan 2017–Present*
 - Project 1: Attacking and defending users' anonymity on Tor Network (Jan 2017–Aug 2018)
 - Independently learned best practices and techniques for applied deep learning via Fast.ai
 - Semifinalist in prestigious 2017 Siemens Competition for high school research
 - Presented at MAA Undergraduate Student Poster Session of 2018 Joint Mathematics Meeting, San Diego
 - First-author of paper under review at 2019 Privacy Enhancing Technologies Symposium conference
 - Second-author of paper accepted into 2018 ACM Workshop on Privacy in the Electronic Society
 - Project 2: Adversarial machine learning (Jan 2018–Present)
 - Working in Mądry Lab at MIT on developing efficient methods to train robust deep neural networks
 - Research includes techniques from linear algebra (self-studied via MIT OpenCourseWare), asynchronous parallelization, and convex optimization
- **AB IdeaLab (AB's Computer Science Club)**
Co-Captain (Fall 2017–Present) *Fall 2015–Present*
 - Plan team meetings, write teaching material, and assist members with creating and executing original projects
 - Train competitive programming team, which competes in American Computer Science League (ACSL) contest
 - Planned and executed Major League Hacking local hack day (AB's Hackathon) in Dec 2017
- **ABRHS Marching, Concert, and Jazz Bands**
Principal Tuba (Fall 2017–Present), Trumpet (Fall 2015–Spring 2017) *Fall 2015–Present*
 - 3rd chair concert band tuba player at 2018 MMEA Eastern District Senior Festival
 - AB marching band received gold medal at 2017 state-level MICCA competition
- **Boy Scouts of America, Troop 284** **Acton, MA**
Eagle Scout (Earned Sep 2016) *April 2012–Present*
 - Achieved highest rank in Boy Scouts. Led project to paint local TV studio sets and enhance production value
 - As Senior Patrol Leader, planned troop meetings and events and was primary interface between scouts and adults

AB Science Olympiad Team

- Member of 15-student team that won 1st place at Yale Invitational Tournament *Fall 2015–Spring 2017*

Publications and Preprints

- [1] **Sanjit Bhat**, David Lu, Albert Kwon, and Srinivas Devadas. Var-CNN: A Data-Efficient Website Fingerprinting Attack Based on Deep Learning. *Under review at 2019 Privacy Enhancing Technologies Symposium*, 2018.
- [2] David Lu, **Sanjit Bhat**, Albert Kwon, and Srinivas Devadas. DynaFlow: An Efficient Website Fingerprinting Defense Based on Dynamically-Adjusting Flows . In *Proceedings of the ACM Workshop on Privacy in the Electronic Society*, 2018.
- [3] **Sanjit Bhat**, David Lu, Albert Kwon, and Srinivas Devadas. Var-CNN and DynaFlow: Improved Attacks and Defenses for Website Fingerprinting . *arXiv preprint arXiv:1802.10215*, 2018.

Honors and Awards

- USA Computing Olympiad - Gold Level**
 - Penultimate level in highly-competitive high school CS Olympiad *Dec 2016*
- MIT Blueprint Hackathon - 1st place in Rookie Division**
 - Created a game that integrated visual perception, auditory cues, and motor functions *Feb 2016*
- President's Volunteer Service Award**
 - Received Gold-level in 2015 and 2016 and AB community service award in 2017 *2015–17*
- National Honor Society**
 - Member of Raymond J. Grey chapter *Fall 2018–Present*

Work Experience

- KTByte Computer Science Academy - Teaching Assistant** **Lexington, MA**
 - Assisted students with introductory–mid level CS using Java and Processing *July 2015–Jan 2017*

Community Service

- Peer Tutor** **Acton, MA**
 - Help high school students develop strong understanding across several subject areas *Fall 2017–Present*
- Central MA Regional Student Advisory Council - Regional Delegate** **Hudson, MA**
 - Elected into committee that discussed solutions to pertinent educational issues *Fall 2016–Spring 2018*
- Science Discovery Museum - Volunteer** **Acton, MA**
 - Helped young children explore science through hands-on exhibits *July 2015–May 2017*

Technical Skills

- Languages:** Python, Java, \LaTeX
- Libraries:** TensorFlow, NumPy, Keras
- OS:** Windows, Unix/Linux