

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 15–Present*
 - 2018–19 AP Courses: 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 (Earned 'A' Grade), Linear Algebra (In Progress) *Fall 18–Spring 19*
- **AlphaStar Academy** **Santa Clara, CA**
USA Computing Olympiad (USACO) Silver, Gold, and Platinum courses *Summer 16–Summer 17*
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**
Third-year student in highly-selective, year-long high school research program *Jan 17–Present*
 - Project 1: Attacking and defending users' anonymity on Tor Network (Jan 2017–Aug 2018)
 - Research at the intersection of secure communication and applied deep learning (self-studied 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—Mądry Lab, MIT (Jan 2018–Present)
 - Research includes techniques from linear algebra, theoretical machine learning, and convex optimization
 - National Scholar in 2019 Regeneron Science Talent Search Competition with paper on efficient robust ML
- **AB IdeaLab (AB's Computer Science Club)**
Co-Captain (Fall 17–Present) *Fall 15–Present*
 - Plan team meetings, write teaching material, and assist members with creating and executing original projects
 - Train competitive programming team—ranked #1 nationally in 2018–19 ACSL contest
 - Planned and executed Major League Hacking local hack day (AB's Hackathon) in Dec 2017
- **ABRHS Marching and Concert Bands**
Principal Tuba (Fall 17–Present) *Fall 15–Present*
 - 3rd chair concert band tuba player at 2018 and 2019 MMEA Eastern District Senior Festivals
 - AB marching band received gold medal at 2017 and 2018 state-level MICCA competition
- **Boy Scouts of America, Troop 284** **Acton, MA**
Eagle Scout (Earned Sep 16) *April 12–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 15–Spring 17*

Publications and Preprints

- [1] **Sanjit Bhat**, Dimitris Tsipras, and Aleksander Mądry. Towards Efficient Methods for Training Robust Deep Neural Networks. *Under review at Regeneron Science Talent Search competition*, 2019.
- [2] **Sanjit Bhat**, David Lu, Albert Kwon, and Srinivas Devadas. Var-CNN: A Data-Efficient Website Fingerprinting Attack Based on Deep Learning. *Under review at Privacy Enhancing Technologies Symposium*, 2019.
- [3] 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.
- [4] **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 16
- **MIT Blueprint Hackathon—1st place in Rookie Division**
Created a game that integrated visual perception, auditory cues, and motor functions Feb 16
- **President’s Volunteer Service Award**
Received Gold-level in 2015, 2016 and AB community service award in 2017, 2018 Jan 15–Dec 18
- **National Honor Society**
Member of Raymond J. Grey chapter Spring 18–Present

Work Experience

- **KTByte Computer Science Academy—Teaching Assistant** **Lexington, MA**
Assisted students with introductory–mid level CS using Java and Processing July 15–Jan 17

Community Service

- **Peer Tutor** **Acton, MA**
Help high school students develop strong understanding across several subject areas Fall 17–Present
- **Central MA Regional Student Advisory Council—Regional Delegate** **Hudson, MA**
Elected into committee that discussed solutions to pertinent educational issues Fall 16–Spring 18
- **Science Discovery Museum—Volunteer** **Acton, MA**
Helped young children explore science through hands-on exhibits July 15–May 17

Technical Skills

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