Sanjit Bhat | Curriculum Vitae

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Education

Acton-Boxborough Regional High School

0 Weighted GPA: 4.4/5.0, Unweighted GPA: 3.9/4.0

- 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

0 Multivariable Calculus, Linear Algebra (In Progress), GPA: 4.0/4.0

AlphaStar Academy

0 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 0

- Third-year student in highly-selective, year-long high school research program
 - 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
 - Second-author of paper accepted into 2018 ACM Workshop on Privacy in the Electronic Society
 - First-author of paper under review at 2019 Privacy Enhancing Technologies Symposium conference
 - Project 2: Adversarial machine learning—Mądry Lab, MIT (Jan 2018–Present)
 - $\cdot\,$ 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)

0 Co-Captain (Fall 17–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 0

- Principal Tuba (Fall 17–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 0

Eagle Scout (Earned Sep 16)

- 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

Publications and Preprints

[1] Sanjit Bhat, Dimitris Tsipras, and Aleksander Madry. Towards Efficient Methods for Training Robust Deep Neural Networks. Led to 'Scholar' award at Regeneron Science Talent Search competition, 2019.

Acton, MA Fall 15–Present

Acton, MA

Acton, MA

Acton, MA

April 12–Present

Fall 15–Spring 17

Fall 15–Present

Acton, MA

Fall 15–Present

Cambridge, MA

Fall 18–Spring 19

Santa Clara, CA

Jan 17–Present

- [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

0	MIT Blueprint Hackathon—1 st place in Main Division Integrated computer vision and databases for real-time, collaborative music synthesis	Feb 19
0	USA Computing Olympiad—Gold Level Penultimate level in highly-competitive high school CS Olympiad	Dec 16
0	President's Volunteer Service Award Received Gold-level in 2015, 2016 and AB community service award in 2017, 2018	Jan 15–Dec 18
0	National Honor Society Member of Raymond J. Grey chapter	Spring 18–Present
V	Vork Experience	
0	KTByte Computer Science Academy—Teaching Assistant Assisted students with introductory-mid level CS using Java and Processing	Lexington, MA July 15–Jan 17
C	Community Service	
0	Peer Tutor Help high school students develop strong understanding across several subject areas	Acton, MA Fall 17–Present
0	Central MA Regional Student Advisory Council—Regional Delegate Elected into committee that discussed solutions to pertinent educational issues	Hudson, MA Fall 16–Spring 18
0	Science Discovery Museum—Volunteer Helped young children explore science through hands-on exhibits	Acton, MA July 15–May 17
1	Technical Skills	

- Languages: Python, Java, LATEX
- o Libraries/Frameworks: TensorFlow, NumPy, Keras, Git
- **OS:** Windows, Unix/Linux