

Adya V. Joshi

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Education

University of Maryland, College Park, MD (Aug. 2020 - Present)
Computer Science Major, French Minor, Public Leadership Scholar
Activities: Maryland Parliamentary Debate Society, Libraries' Student Advisory Group

Howard High School, Ellicott City, MD (Aug. 2016 - Jun. 2020)
Activities: Speech and Debate, Mu Alpha Theta, Société Honoraire de Français

Publications

- A. Joshi, M. Oberoi, and R. Bose, "Analyzing CDR/IPDR Data to Find People Network from Encrypted Messaging Services," *2018 IEEE 4th International Conference on Collaboration and Internet Computing (CIC)*, Philadelphia, PA, 2018, pp. 480-486. doi: 10.1109/CIC.2018.00013
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Presentations

- Presentation of paper at IEEE CIC, October 2018
- Presentation of talk "Investigating the Matrix-tRNA complex in HIV infected cells" at Hammond High School, October 2018. Also presented at Howard High School, June 2019
- Presentation of talk "Investigating the link between mental health conditions/care and HIV" at River Hill High School, December 2019

Work Experience

Internship at Delhi Police Special/Cyber Cell
Analytics to Induce Call Graphs Project (July 2017-Oct. 2018)
New Delhi, India

- Analysis of data provided by the Delhi Police to induce call graphs amongst criminals using end-end encrypted messaging platforms
- Creation of program and user-friendly interface
- Under the supervision of Professor Ranjan Bose of IIT Delhi and Dr. Madan Oberoi of Delhi Police

**Internship at Howard Hughes Medical Institute
University of Maryland, Baltimore County**

(Sept. 2018-May 2020)

- Conducted research on the Matrix-tRNA complex in HIV, gel electrophoresis in HIV research, and the relationship between mental health and HIV
- Worked to help visualize proteins using PyMOL
- Worked in different settings under the supervision of Dr. Michael Summers, Fellow NAS, Part of Dr. Janae Baptiste's lab group
- Presented the research results to students at my school and from across the county

**Instructor at Achieve Success Together
Ellicott City, Maryland**

(Mar. 2020-Present)

- Privately tutor children one on one in a variety of subjects according to the Howard County Public School System (HCPSS) curriculum (AST Solo)
 - Subjects: English, G/T Math, Java, Social Studies, Science
- Instructor for English (6-8): English for middle schoolers following HCPSS curriculum (AST Enrich, Fall 2020)

Awards/Honors

National Merit Commended Scholar
AP Scholar with Distinction
Excellence in World Languages

(Sept. 2019)
(Jul. 2019, Jul. 2020)
(May 2020)

Skills

- Can code in Python and Java
- Can work with Microsoft Windows, Mac OS, Chrome OS, Linux OS
- Natively Fluent in Hindi and English
- Complete working proficiency in French
- Limited working proficiency in Japanese
- Beginner in German, Chinese, and Korean
- Extensive proofreading and editing experience
- Have been playing the violin since 2010
- Learning Hindustani Classical Music. Passed the third level exam with a distinction in vocal music.

References: Available upon request