

Jacob Luke Graham

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31 Channing St., Unit2

Newton, MA 02458

Experience

MEDScience Program for High School Students – *Harvard Medical School, Boston, MA* July 2018

- Participated in simulated medical case review, learned standard procedures and treatment methods, and participated in Q&A with doctors and staff
- Attended lectures and classes on various medical professions and topics
- Earned Red Cross certification in Adult and Child CPR, AED, and choking prevention and treatment
- Practiced procedures with medical devices and equipment: IV placement, intubation methods, and sutures and wound care

Mayor's Summer High School Internship Program – *The Village Bank, Newton, MA* 07 - 08 2017

- Observed multiple bank departments and worked with staff over the course of a six-week program: security, accounting, HR, and community engagement
- Assisted with facilitating community event with Newton Senior Center
- Maintained regular and professional communication with supervisors
- Attended weekly workshops at City Hall to learn financial literacy, interview skills, workplace communication, and more

Education

Brandeis University

2019-present

- Advanced classes in physics, mathematics, computer science, economics, writing (please see transcript)

Newton North High School – *Newton, MA*

Graduated 05/2019

- Interest and focus on STEM (specifically physics, mathematics, and chemistry)

Honors, Activities, and Interests

- Merit Scholar (Brandeis University) 2019
- Brandeis University Dean's List Arts and Science Academy, Dorothy L. Hodgson, Dean of Arts and Sciences Fall Term 2019
- Active member of Newton North High School's Center for Civic Engagement and Service 2016-2019

- Member, Mathematics / Physics Stack Exchange 2019-present
Active member of online mathematics and physics question-and-answer forums
- Clarinetist, Wind Ensemble Honors / Jazz Band Honors 2015-present
Attends daily clarinet and bass clarinet practice, performs five concerts annually, leads younger group members
- Independent Non-Curricular Study, NNHS Physics Department 2018-2019
Self-studies textbooks, consults physics teacher weekly, preparing to take AP Physics Electricity and Magnetism exam
- Peer Tutor, NNHS Math and Chemistry Departments for Junior and Seniors 2018-2019
Assists students in AP Chemistry and AP Calculus with homework, helps build students' conceptual understanding and confidence regarding the topics
- Classroom Aide, NNHS 10th Grade Honors Chemistry 2017-2018
Facilitated day-to-day management of classroom, graded assignments, assisted students academically, sorted and maintained lab equipment
- Community Service Volunteer, Chabad Teen Community Outreach 2016-present
Participates in various nursing home projects: food delivery, activities of daily living, social events for the elderly
- Member, Science in the News Club 2018-2019
Discusses scientific topics with peers, explains complex concepts in an understandable way for other members
- Member, Debate Team 2015-2016
Discussed current events, participated in debate competitions
- Mount Sinai Hospital Basic Science Volunteer August 2018
Learned basic laboratory techniques, maintenance of laboratory equipment and supplies, searching medical databases for scientific references, data entry and compilation
- Student Government: Vice President NNHS Outside Schools Program 2015-2016
Represented students coming from non-Newton middle schools, facilitated fundraisers, organized student activities such as lunch social groups
- Athletic Club: Tennis Player, Various Tennis Clubs 2015-present