

David Kim
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EDUCATION

Boston College – Morrissey College of Arts & Sciences

Bachelor of Science in Biology | Pre-med Track

Cumulative GPA: 3.709

MCAT Score: 519 (96th Percentile)

Chestnut Hill, MA

Class of 2021

Honors: 2020 BAIC Bowman Scholar Recipient, Dean's List 1st Honors (Fall 2019, Fall 2020, Spring 2021), Dean's List 2nd Honors (Fall 2017, Spring 2019)

Relevant Coursework: Molecules and Cells, Ecology and Evolution, Chemistry I & II, Organic Chemistry I & II, Physics I & II, Investigations in Cell Biology Lab, Genetics, Cell Biology, Microbiology, Biochemistry I, Human Physiology with Lab, Biostatistics

RESEARCH EXPERIENCE

Department of Biology, Boston College

Undergraduate Researcher

Chestnut Hill, MA

February 2019- Present

- Studied the effects of *Parabacteroides distasonis* bacteria on the acceleration of Type 1 Diabetes Autoimmunity in non-obese diabetic mice, under the supervision of Dr. Emrah Altindis
- Received formal mouse training and learned several skills and techniques concerning mice, including breeding and weaning, fecal sample collection, oral gavage, subcutaneous injection, glucose testing, insulin tolerance testing, and dissection
- Isolated DNA from fecal samples and subsequently analyzed DNA using Nanodrop Spectrophotometer
- Co-authored an edited a review paper discussing the role of dietary factors on Type 1 Diabetes onset and progression, including topics such as breastfeeding, gluten-based foods, prebiotics and probiotics, and modulation of the gut microbiome via administration of short chain fatty acids
- Gave several PowerPoint presentations during weekly lab meetings, presenting various research papers on topics such as IGF-1 systems in disease, the role of microbiota colonization in the development of the immune system, and the immunoregulatory nature of antimicrobial peptides in Type 1 Diabetes

WORK EXPERIENCE

ScribeAmerica | Boston Children's Hospital

Medical Scribe in Dermatology and Immunology/Allergy

Boston, MA

January 2020-September 2020

- Accurately documented patient chief complaint, medical history, physical examination, diagnosis and treatment plan as verbalized by the patient and provider in real time
- Contributed to medical office efficiency, reducing patient wait time by around 50%

Tenaflly Pediatrics

Paid Intern | Shadow Opportunity

Tenaflly, NJ

December 2018-September 2021

- Integrated new patient data and files after merger with Metropolitan Pediatrics via eClinicalWorks Grid Cloud Database
- Observed patient-physician interaction and processes of diagnosis

Curious Cardinals

Mentor/Tutor

Online, via Zoom

August 2021 - Present

- Assembled lessons and gave online instruction to multiple middle and high school students, in subjects including Math, English, History, Biology, and Chemistry
- Kept records of academic performance and applied this information to address areas of improvement for students

EagleTech, Information Technology Services, Boston College

Technology Specialist

Chestnut Hill, MA

September 2018-November 2018

- Aided clients with various technology issues at the on-campus support help desk
- Attended training sessions which taught how to address new technological issues

VOLUNTEER EXPERIENCE AND ACTIVITIES

Volunteers Around the World (Boston College Chapter)

Chestnut Hill, MA

Co-founder | Vice President | Treasurer

September 2018- March 2020

- Co-founded club with the intent to provide prospective medical students with an educational and culturally immersive volunteer experience in other countries that lack proper healthcare, including Guatemala and Vietnam.
- As Vice President, directed weekly club meetings and managed teams, each assigned to specific tasks
- As Treasurer, managed over \$40,000 in trip funds via empowered.org, and assisted in leading many fundraising campaigns

East Boston Neighborhood Health Center

Boston, MA

Coach | Emergency Room Assistant

September 2018-May 2019

- Assisted Medical Assistants, Physician Assistants and Medical Doctors with various tasks in the Emergency Room, including cleaning and resupplying the facilities and transporting patients between departments
- Shadowed Physician Assistants and Medical Doctors, observing physician-patient interactions and diagnostic processes
- Coached for the after-school program "Let's Get Moving" to combat childhood obesity in East Boston, leading workouts and fitness games, and giving weekly presentations on health and nutrition to encourage healthier lifestyle choices

Boston College Korean Student Association

Chestnut Hill, MA

Community Leader | Mentor | Choreographer

September 2017- Present

- Served as a community leader for two years, which involved planning, executing and leading various social and cultural events throughout the year
- Mentored several students through KSA's "Big Little" mentorship program
- Co-led and co-choreographed "Talchum," a traditional Korean mask dance that is performed at Boston College's annual Culture Show, hosted by the Boston College's Korean and Chinese Student Associations

Boston College Neighborhood Center

Chestnut Hill, MA

Tutor

September 2017- May 2018

- Gave in-person instruction to high school students from East Boston in all subjects, to help them complete assignments and acquire knowledge for examinations

PUBLICATIONS

- Huang, Q., Chow, I.-T., Brady, C., Raisingani, A., Li, D., Ostrov, D. A., Altindis, E.* (2020) *Parabacteroides distasonis enhances Type 1 Diabetes autoimmunity via molecular mimicry*. BioRxiv. doi: <https://doi.org/10.1101/2020.10.22.350801>. **Kim, D.** Acknowledged for working on animal experiments in the Altindis Laboratory in 2020
- Dedrick, S., **Kim, D.**, Obaid, L., Mahon, C., Chapdelaine, H., McNamara, M., Altindis, E.* (2021) *The influence of and role of dietary factors on Type 1 Diabetes and the gut microbiome*. (Currently under review)