

## David Kim

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### EDUCATION

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#### **Boston College – Morrissey College of Arts & Sciences**

*Bachelor of Science in Biology | Pre-med Track*

Cumulative GPA: 3.709

**MCAT Score:** 519 (96<sup>th</sup> Percentile)

Chestnut Hill, MA

*Class of 2021*

**Honors:** 2020 BAIC Bowman Scholar Recipient, Dean's List 1<sup>st</sup> Honors (Fall 2019, Fall 2020, Spring 2021), Dean's List 2<sup>nd</sup> 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

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#### **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

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#### **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**

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### **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**

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- 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)