

Profile

Personal information

Name Humayun, Muhammad Muaaz
Share different name No
Birthdate 12/01/2006

Contact details

Email, Phone muhammadmuaazhumayun@gmail.com, +92.3028478633, Mobile, +92.3218478633, Mobile
Permanent address 82-C, New Muslim Town Lahore, Punjab, 54600, PAK

Demographics

Gender Identity Male
Sex Male
Pronouns He/Him
Military status None

Language

Urdu Speak, Read, Write, Spoken at Home
English First Language, Speak, Read, Write, Spoken at Home
Arabic Speak, Read, Write
Hindi Speak
Punjabi Speak, Read, Spoken at Home

Geography and nationality

Citizenship status Citizen of non-U.S. country
Birthplace Lahore, Pakistan 0 years US
Other citizenships Pakistan

| | |
|-------------------------|-------------|
| Current US Visa | None |
| Intended US Visa | F-1 Student |

Common App fee waiver

| | |
|-----------------------------|----|
| Fee waiver requested | No |
|-----------------------------|----|

PREVIEW

Family

Household

| | |
|---------|--------------|
| Parents | Married |
| Home | Both Parents |

Parent 1

Father

| | |
|--------------|---|
| Name | Mr. Muhammad Awais Humayun |
| Email, Phone | awais.humayun@gmail.com, +92.3218478633, Mobile |
| Occupation | Business owner or proprietor, Self-Employed |
| Education | Graduated from college/university Bachelors (2002), Lahore School of Economics, Lahore, Pakistan |

Parent 2

Mother

| | |
|--------------|---|
| Name | Mrs. Sidra Awais |
| Email, Phone | sid.awais@gmail.com, +92.3218468633, Mobile |
| Occupation | Homemaker (full-time) |
| Education | Graduated from college/university Bachelors (2004), Lahore college, Pakistan |

Siblings

Muhammad Muavwiz Humayun, Age 14
Nusaibah Humayun, Age 11

Education

Current or most recent secondary school

**Aitchison College, Shara Quaid E-Azam, Lahore, PAK, Independent, CEEB: 690220
(08/2021 - 06/2025)**

| | |
|------------------------|---------------------------|
| Boarding school | Yes: Not living at school |
| Progression | No change in progression |
| Graduation Date | 06/2025 |

Colleges & universities

Grades

| | |
|-------------|----------|
| Rank | na / 300 |
|-------------|----------|

Current or most recent year courses

Full year

CHEM - Chemistry - (Cambridge AICE AS A-Level)
PHYS - Physics - (Cambridge AICE AS A-Level)
MATH - Mathematics - (Cambridge AICE AS A-Level)
MATH - Further Mathematics - (Cambridge AICE AS A-Level)

Honors

| | | |
|---|---------------|--------|
| National Finalist; Elected to represent Pak Team; Bronze Medal in IAAC | International | 11, 12 |
| 1st in Caribou Maths out of 1600 Participants | International | 12 |
| Best Research Paper Award on Bone Density Loss in Space, SUPARCO | National | 11, 12 |

| | | |
|--|----------|----|
| National Science Bowl Finalists | National | 10 |
| 1st in class for AS Level Examinations out of 300 | School | 11 |

Future plans

Engineer, Doctorate

Testing

Cambridge

Leaving Exams

| | | |
|----------------------------|----|--|
| Chemistry | A* | 06/2025, Predicted, GCE-Advanced Level Examinations (GCE-A Levels) |
| Physics | A* | 06/2025, Predicted, GCE-Advanced Level Examinations (GCE-A Levels) |
| Mathematics | A* | 06/2025, Predicted, GCE-Advanced Level Examinations (GCE-A Levels) |
| Further Mathematics | A* | 06/2025, Predicted, GCE-Advanced Level Examinations (GCE-A Levels) |

Activities

Research

| | |
|---|---|
| 11 Break 10 hr/wk, 16 wk/yr Continue | Research Assistant, Authored Research, Published Int'l Conference, Space & Upper Atmosphere Research Commission (SUPARCO) Published Paper "Space Flight Calcium: Implications for Astronaut Health, Spacecraft Operations and Earth"; Study of bone density loss in space |
|---|---|

Career Oriented

| | |
|--|--|
| 11, 12 Year 12 hr/wk, 14 wk/yr Continue | Founder, Hifazat, Collaborated with Government of Pakistan Developed cost-effective nutritional supplement for drug recovery; Targeted Sheikhpura's rehab centers & slums; Impacted 200+ using local ingredients |
|--|--|

Computer/Technology

| | |
|---|--|
| 11, 12 Break 10 hr/wk, 19 wk/yr Continue | AI Development Team Lead, Gulab Devi Hospital Developed an AI model to assist 15+ doctors in medical diagnosis; Collaborated with hospital's team for seamless integration; Increased efficiency |
|---|--|

Student Govt./Politics

| | |
|---|---|
| 9, 10, 11, 12 School 18 hr/wk, 48 wk/yr Continue | Secretary General, Science Society, Aitchison College Led team to Nat'l & Int'l Olympiads; hosted ACSEC for 1400+ ppl; Organized sessions of 10+ industry experts; Introduced hands on initiatives for 150+ |
|---|---|

Science/Math

| | |
|--|--|
| 11, 12 Break 6 hr/wk, 30 wk/yr Continue | Pakistan National Team Member, International Astronomy & Astrophysics Competition, International Tournament of Young Mathematician Conducted research on astronaut nutrition & metabolic changes in microgravity; Bronze Medalist, National Rounds; Solved complex rhetoric math problem |
|--|--|

Community Service (Volunteer)

9, 10, 11, 12

Year

20 hr/wk, 40 wk/yr

Continue

Founder & Team Lead, Haath Barhao, Lions Club

Led team to Sheikhpura in food scarcity; collaborated for food drives; Organized medical camps for 100+ underweight children; Developed diet plans

Science/Math

10, 11, 12

Year

20 hr/wk, 30 wk/yr

Continue

Founder, "Kainaati Irtiq", Astronomy Society

Led development of low-cost telescopes for schools; Organized 'Space Week' to explore careers; Conducted planetary viewing for underprivileged schools

Cultural

10, 11, 12

Year

12 hr/wk, 26 wk/yr

Continue

STEM Instructor, Tutor, Children with Bone Disease & Stunted Growth, Cholistan Desert

Taught basic math, physics, & astronomy & held stargazing sessions for 200+ children with bone disease & stunted growth in Cholistan Desert

Journalism/Publication

9, 10, 11, 12

School

10.5 hr/wk, 36 wk/yr

Continue

Head of Coordinations, Scientifica Magazine, ACSS

Oversaw production of Pakistan's largest high school STEM magazine covering AI, biotech, robotics; Coordinated compilation & editing of 120+ articles

Other Club/Activity

9, 10, 11, 12

Year

10 hr/wk, 42 wk/yr

Continue

Stitching, Self-Directed Stitching Initiative

Created unique clothing designs using various techniques; Self-made 30+ garments; Experimented with acid wash, dyeing, & eco-printing

Writing

Personal essay

Share an essay on any topic of your choice. It can be one you've already written, one that responds to a different prompt, or one of your own design.

A dash of Procion MX, a sprinkle of sodium hydrosulfite, a generous amount of sodium carbonate. Bent over a bubbling pot, I carefully mix these chemicals, each a vital component in the alchemy of our family's survival. But in my veins, the balance is much more delicate - a lack of hemoglobin, a deficiency of iron, a molecular misstep that turns my blood into a battleground.

Living with thalassemia minor, I know the periodic table not just as a student of chemistry but as a patient. Ferric sulfate, folic acid, and ascorbic acid - these compounds dictate my existence, my daily dosage carefully measured to stave off the crushing fatigue and dizziness that plague me. My red blood cells, deficient in hemoglobin, struggle to transport oxygen, leaving my muscles starved and my brain in a perpetual fog. My anemia left me in a constant state of hypoxia, my body's desperate plea for the oxygen it so rarely received.

Yet, I push forward, because I *must*. In our workshop, chemicals play a different role - transforming raw cotton into garments of color. My fingers, though trembling from weakness, deftly manipulate the fabric, soaking it in a solution of urea and sodium alginate to ensure the dyes adhere. Sodium hydrosulfite bleeds color into the cloth, much like the iron-deficient blood that struggles to nourish my cells. This dyeing process is a careful balance of chemical reactions, just as my life is a precarious balance of managing my illness while supporting my family.

Toil and tear were all I ever knew, my condition plaguing me with inescapable fatigue that made even the most mundane tasks seem impossible. Hopping from clinics to homeopaths, the advice was always the same: "*Yeh tou kismet ka khel hai*" - This is the play of destiny. But life did not afford me the luxury of blaming destiny. At just 15, my father, our only breadwinner, fell victim to a heart injury, a stunt forever restricting his ability to exert and express. The burden of responsibility fell on my shoulders. My days became a blur of morning classes and long hours at our family workshop, my body and spirit tested to their limits.

It was during one of my bouts of weakness, lying on my cot, my body too frail to move, that a stark realization struck me. If I, with the access I had to medicines and food, struggled this much with anemia, how were the countless children in my community faring? Children with no access to fortified foods, no iron supplements, no awareness of the peril that lay in their blood. Someone had to step up for them, to break this cycle of malnutrition and neglect, *and that someone had to be me*, for I couldn't just be a silent sufferer; I had to be the change, the voice, the advocate for those who had none.

In my quest to bring this pigment of transformation to others, I started "*Haath Barhao*" (Lend a Hand), a project in collaboration with the Lions Club International - Pakistan's largest network of Non-Governmental Organizations. I reached out to rural areas near Sheikhpura, where food scarcity and malnutrition were rampant. My team of 45 students from Lahore and Karachi and I, studied research on iron absorption enhancers, such as Vitamin C, and inhibitors like tannins and calcium, to devise food plans that could maximize the nutritional intake of anemic children. Building on this, we conducted 24+ food drives, organized medical camps for anemic,

underweight, and starved children, and helped develop diet plans tailored to the villages' available food staples and nutritional needs. Through "*Haath Barhao*," I seek not just to fill stomachs, but to bring health, and a brighter spectrum of life to those who, like me, have known only shades of gray.

Additional information

Kainaati Irtiqa

Kainaati Irtiqa is a non-governmental astronomy-based organization. The goal behind Kainaati Irtiqa is to raise awareness about astronomy among a larger demographic of people, and empower the youth by providing them with the tools of S.T.E.M that they need to develop a successful career. Kainaati Irtiqa also collaborates with other non-governmental organizations and aims to help underprivileged students who have little to no access to education.

Link to Kainaati Irtaqa:

https://www.instagram.com/kainaati.irtiga?utm_source=ig_web_button_share_sheet&igsh=ZDNlZDc0Mz

Scientifica Magazine

Scientifica is the flagship magazine of the ACSS with an emphasis on STEM. It covers AI, Biotechnology, Robotics etc. It is the biggest high school published magazine in Pakistan and two copies of the Scientifica are published every year. Nearly 120+ articles are submitted out of which the best are selected and edited to be included in the magazine.

Link to a copy of the Scientifica Magazine: <https://drive.google.com/file/d/1tmtqWakvPXfsWjjeOogsRGBUrBifVI6/view?usp=sharing>

Link to the abstract of my research under SUPARCO:

<https://drive.google.com/file/d/1grqPqLF33HvkTLalc1uPfbAlaESmTj8Z/view?usp=sharing>

ACSEC

Aitchison College Science and Engineering Concept (ACSEC) is the largest STEM Olympiad held in South Asia. Over 50 schools from across Pakistan participate, with delegates traveling from diverse regions, including Karachi, Peshawar, Haripur, and Bahawalpur. The event challenges participants across a broad spectrum of STEM disciplines, engaging them in tasks that ranged from dissecting frogs and launching rockets to extracting fingerprints.

Link to the ACSEC Social Media page:

https://www.instagram.com/acsec_ix?utm_source=ig_web_button_share_sheet&igsh=ZDNlZDc0MzIxNw

Haath Barhao

Haath Barhao is an endeavor near and dear to my heart and I'm immensely proud of the impact we

have made. Our goal was to reach out to rural areas of Sheikhpura, where food scarcity and malnutrition were rampant. My team of 45 students from Lahore and Karachi and studied research on iron absorption enhancers, such as Vitamin C, and inhibitors like tannins and calcium, to devise food plans that could maximize the nutritional intake of anemic children. Suffering from thalassemia minor myself, I felt that it was my responsibility to improve conditions for these children. We conducted 24+ food drives, organized medical camps for a 100+ anemic children, and helped develop diet plans tailored to the villages' available food staples and nutritional needs.

Link to letter of appreciation from the President of Lion's Club:

https://drive.google.com/file/d/1_z8mQyM3U9E_W5EZGNo6TNww_SJW2zDd/view?usp=sharing

Education progression

Details

Education progression details No change in progression

PREVIEW

University of Pennsylvania questions

General

| | |
|--|---|
| Start Term | Fall 2025 |
| Admission plan | Early Decision |
| Early Decision Agreement | Yes, I have read and understand my rights and responsibilities under the Early Decision Process and have reviewed Penn's Early Decision policy. I wish to be considered as an Early Decision candidate at University of Pennsylvania. I also understand that with an Early Decision offer of admissions, this institution may share my name and my early commitment with other institutions. Muhammad Muaaz Humayun |
| School Specific Fee Waivers | No |
| Financial aid | No |
| School Discipline | No |
| Have you ever been adjudicated guilty or convicted of a misdemeanor or felony? Penn does not prejudge individuals on the basis of their response to this question; however, we want to understand the circumstances around your criminal history. We urge applicants to reflect upon their actions, provide context and detail, and any lessons learned from the experience. | No |
| Use Testing | Yes |

Contacts

| | |
|--------------------|----|
| Previously applied | No |
|--------------------|----|

If you wish to be contacted via mobile phone, please provide your phone number. Contact methods may include phone calls generated from an automated telephone dialing system or text messaging.

I consent to be contacted by University of Pennsylvania at the mobile phone number provided below.

Mobile Phone Number: +92.3028478633

How did you hear about Penn? Current Penn Student, Internet, College Counselor

Context & background

Context and Background

- Assisting family or household members with situations such as doctors appointments, bank visits, or visa interviews
- Taking care of younger family or household members

Family

Sibling applied No

Relatives attended member No

Relative employed at member No

Other Information

Do you hold citizenship or permanent residence status in Canada or Mexico? No

Tribal Enrollment No

Would you like to provide information regarding personal identification with the LGBTQ+ community? (optional) No

By submitting this application, you certify that this application and its contents are factually true, honestly presented, and authentic. Additional application materials sent on your behalf (e.g., transcripts, counselor recommendations, etc.) must be sent by an official or University-approved source. All application materials and contents are subject to audit and verification. In cases of applicant misrepresentation, including falsifications or deliberate omissions, Penn Admissions reserves the right to deny or rescind admission.

I agree

Affirmations

By submitting this application, I affirm my understanding of and agreement to the statements found here: <http://www.commonapp.org/affirmations>.