







Dayoung Lee

 Email: dayounglee0331@gmail.com  Mobile: (+82) 10-5531-8166  Address: Seocho-gu, Seoul, South Korea
 Homepage: www.dylee.net  Instagram: [@dyleeart](https://www.instagram.com/dyleeart)  GITHUB: <http://bit.ly/4kBBlyx>

Aspiring Data Scientist & Creative Problem Solver ***Bridging Data, Design, and Community Impact***

EDUCATION

Branksome Hall Asia (Jeju, South Korea) | Aug 2021 – Present

- **High Honors** - Grades 8, 9, 10, 11
- **Subject Excellence Awards - English Language & Literature** (Grades 8, 9), **Mathematics** (Grade 10)
- **IBDP:** Computer Science HL, Physics HL, Mathematics: Analysis and Approaches HL
English A Language and Literature SL, Korean A Language and Literature SL, Geography SL
- **SAT Super Score: 1560 (MATH: 790, RW: 770)**
- **TOEFL iBT: 120 (Perfect Score), Aug 2025**
- **AP Statistics: Score 4 (Grades 9, 2023)**

ACADEMICS & RESEARCH

Global Education Gaps and Economic Inequality: A Cross-National Analysis | Jun 2024 – Aug 2025

Student Researcher & First Author

- Forthcoming publication in *Journal of Emerging Investigators* (2025)
- Built original datasets across 11+ countries; applied Python (pandas, seaborn) and regression/clustering to model disparities.
- Identified structural links between development indices and learning inequality, proposing data-informed recommendations.

AI-Powered Analysis of the Digital Divide | Mar 2025 – Jul 2025

- *Excellence Award, 7th Public Education Data Analytics Competition (Ministry of Education, Korea)*
- Designed data-driven solutions to improve digital access in public schools.

SDGs Scholar Lab – BeeVive.org (UN-Supported) | Oct 2023 – Aug 2025

- Researched smart beekeeping technologies to address biodiversity loss and food security under climate change.
- Applied systems thinking to connect youth-led science with local sustainability practices.

Disaster Vulnerability and Socioeconomic Inequality | Sep 2023 – Mar 2025

Student Researcher & First Author

- *Published in Journal of Student Research – High School (AUG 2025)*
- Conducted a systematic review on how socioeconomic status affects health outcomes after natural disasters.

Harvard Secondary School Program - Data Mining, Discovery, and Exploration | Jun 2025 – Aug 2025







- Completed a 7-week, credit-bearing course on large-scale data modeling, FDR control, and map-reduce processes.
- Built upon foundational skills from HarvardX's Python for Data Science course to develop academic depth and ethical fluency in data use.

Global Netflix Content Analysis | Jan 2024 – Present

Independent Data Science Project (GitHub Repository Available)

- Analyzed 80K+ titles over 13 years to study genre diversity and cultural representation.
- Translated data into inclusive content strategy insights using Python's NumPy, Pandas, and Matplotlib

Dayoung Lee

 Email: dayounglee0331@gmail.com  Mobile: (+82) 10-5531-8166  Address: Seocho-gu, Seoul, South Korea
 Homepage: www.dylee.net  Instagram: [@dyleeart](https://www.instagram.com/dyleeart)  GITHUB: <http://bit.ly/4kBBlyx>

INNOVATION & ENTREPRENEURSHIP

National Gifted Program for Future Innovators (IP-CEO Initiative) | Nov 2022 – Oct 2024

- Co-developer of *Study Cap*, an AI-powered mobile PDF scanner for digitizing handwritten notes.
- Awarded **Top Team** in customer discovery and rapid prototyping.
- Completed 570+ hours of advanced training in intellectual property, startup strategy, and social innovation.
- Selected for an elite program co-hosted by **KAIST** and the **Korean Intellectual Property Office**

Smart Closet – Sustainable Fashion Platform | Feb 2025

- Bronze Medal, Genius Olympiad Korea
- Created an eco-credit reward system to promote clothing return and reduce waste

Ed-Ability | Oct 2024

- **2nd Place** at Korea's national round of the World Series of Innovation
- Designed a tutoring model to support students with disabilities.

Convo | Feb 2025

- **Best Pitch**, World Youth Entrepreneurship Challenge Korea.
- Developed a bi-directional sign language translation prototype for hearing-impaired communication

Assistive Product Patents | Feb 2022 – Feb 2024

- Filed three utility patents for accessibility tools, inspired by interviews with elderly and disabled users.
- Designed adaptive beverage holders and intuitive assistive tools inspired by a stroke-recovering grandfather.

COMMUNITY & GLOBAL ENGAGEMENT

Youth Representative, UN Department of Global Communications (DGC) | Jan 2025 – Present

Official Delegate, UN Headquarters, New York, NY

- Appointed Youth Representative for sustained contributions to SDGs in equity, education, and community development.
- Granted UN Grounds Pass; spoke at high-level forums and represented underrepresented youth voices.
- Co-designed inclusive engagement initiatives with UN partners, integrating local project insights.

Youth Reporter, World Citizen Magazine (UN Youth Press Program) | Jul 2022 – Dec 2024

- Reported on UN briefings in New York; interviewed experts on human rights and diplomacy.
- Published youth-focused articles encouraging cross-cultural understanding.

Translator, UN Publications for Children | 2022–2023

- Translated *Get on Board, Dear Children of the World* (2022) and *From My Window* (2023) into Korean to foster cross-cultural empathy.

UN Expert Education Program (3-Year) | Aug 2021 – Jan 2023

- Completed 200+ hours of training in development, human rights, and environmental policy.
- Led award-winning team projects on industrialization and sustainable development, earning Best Project Award twice for innovative, community-driven solutions.







Yale Model United Nations (YMUN) – Delegate, Human Rights Committee | Jan 2023

- Authored and presented a resolution on women's empowerment.

Future Leaders Program – UN Food and Agriculture Organization (FAO) | Aug 2022

- Studied biodiversity, climate resilience, and sustainable agriculture through global case studies.

Dayoung Lee

 Email: dayounglee0331@gmail.com  Mobile: (+82) 10-5531-8166  Address: Seocho-gu, Seoul, South Korea
 Homepage: www.dylee.net  Instagram: [@dyleeart](https://www.instagram.com/dyleeart)  GITHUB: [http://bit.ly/4kBBlyx](https://bit.ly/4kBBlyx)

LEADERSHIP & SERVICE

BHA Sustainability Magazine | Grades 9–11

Editor in Chief, SDG-Focused Publication Leadership

- Oversaw editorial strategy, article development, and visual layout; distributed publications campus-wide.
- Mentored junior writers to strengthen sustainability discourse and student-led advocacy.

DYLee Art Fundraiser Project | Jan 2022 – Present

- Founded an art-based fundraising initiative donating 100% of proceeds to the UNHCR; raised \$2,000+ to date.
- Produced digital illustrations and zines merging storytelling with humanitarian outreach.

Community Volunteering | Jan 2020 – Present

Minister's Commendation – Ministry of Youth and Sports, Republic of South Sudan (Oct 2023)

- Created and distributed audiobooks for visually impaired students in Korea.
- Contributed 120+ volunteer hours translating and illustrating children's books, engaged in youth-led human rights initiatives
- Supported underserved communities through meal service and cross-cultural communication projects

The Duke of Edinburgh's International Award - Bronze (2023), Silver (In Progress)

Minister's Award – Ministry of Gender Equality and Family (Dec 2023)

- Demonstrated long-term commitment to personal growth, outdoor challenges, and community service.
- Recognized as a national outstanding participant for sustained and self-directed service across disability support, cultural translation, and global citizenship.

BHA Phynders (Physics Experiment Club) | Grades 11 – Present

Co-Leader, STEM Exploration & Peer Mentorship

- Led inquiry-based experiments to deepen understanding of advanced physics concepts.

ART & CREATIVE EXPRESSION

Global Digital Art & Animation Portfolio – @dyleeart | Jan 2019 – Present

- Built a cross-platform audience of 12,000+ followers (Instagram 9K, Tumblr 3K, YouTube 600) with cumulative views in the hundreds of thousands.
- Produced original 2D animations and illustrations, including frame-by-frame shorts such as a Moomin tribute surpassing 300,000 views.
- Blended storytelling and design to explore cultural sensitivity and creativity, fostering a global art community.
- Developed advanced skills in animation timing, visual composition, and multi-platform content production.

TEDx Daejeongup Speaker – The Ethical Costs of Generative AI in the Art Industry | May 2025

- Presented a TEDx talk analyzing generative AI's effects on authorship, identity, and labor ethics, blending artistic and data science perspectives to champion human-centered innovation.







BHA Animation Studio (Founder & Leader) | Grades 11

- Founded the school's first animation club to build a collaborative, beginner-friendly space for digital storytelling and visual experimentation, directed collaborative short film of "Naughty" from the musical *Matilda*

Cultural Heritage Project – Story of Haenyeo | Grades 11

- Wrote and illustrated a picture book weaving the stories of Jeju's haenyeo (women divers), a living UNESCO Intangible Cultural Heritage.
- Assisted English translation of the book

Dayoung Lee

 Email: dayounglee0331@gmail.com  Mobile: (+82) 10-5531-8166  Address: Seocho-gu, Seoul, South Korea
 Homepage: www.dylee.net  Instagram: [@dyleeart](https://www.instagram.com/dyleeart)  GITHUB: <http://bit.ly/4kBBlyx>

Orchestra Performer (Flute & Percussion, 6+ yrs) | Grades 6 – Present

- School concerts & collaborations, Cultivated artistic expression, discipline, and collaborative musicality through long-term ensemble participation.

Theater Design & Production Team – Annie(2023), The Wizard of Oz(2024) | Grades 9, 11

- Designed stage sets and promotional posters for school musicals, integrating artistic creativity with technical execution.
- Coordinated backstage operations to ensure seamless performances, collaborating with directors and cast.

AWARDS & RECOGNITIONS

STEM & Data Science

- Excellence Award – Public Education Data Analytics Competition | Jul 2025
- Gold (Data Analytics) & Bronze (Python) – Korea Youth IT Competition | Sep 2024
Organized by the Korea Information and Communication Promotion Agency (KIPA)

Mathematics & Computing

- School Champion(2024) & Distinction (2022–2024) – *Canadian Senior Mathematics Contest (CSMC)*, University of Waterloo
- Elitist Prize (Top 10%) – *International Math Olympiad Challenge (IMOC)* | 2022–2023
- Distinction- *Beaver Computing Challenge (BCC)* | 2022–2023

Creativity & Social Innovation

- Best Pitch Award – *World Youth Entrepreneurship Challenge Korea (WYEC)* | Jun 2025
- Bronze – *Genius Olympiad Korea (Sustainable Design)* | Feb 2025
- 2nd Place – *World Series of Innovation (WSI)* | Oct 2024

Global Citizenship & Public Service

- Minister's Award for Outstanding Achievement – Ministry of Gender Equality & Family | Dec 2023
- Commendation – Ministry of Youth & Sports, Republic of South Sudan | Oct 2023

Academic Writing

- High Commendation – John Locke Global Essay Competition(Economics) | Oct 2023
- Grand Awards – GLEC Global Leadership English Competition | Feb 2022
UN-partnered SDG essay and speech program

Arts

- Bronze Prize, Percussion Division, Music Education Newspaper Competition | 2024
- BHA Art Queen Award -visual art section winner | Grades 9

TECHNICAL & CREATIVE SKILLS

- **Data & Programming:** Python (pandas, NumPy, scikit-learn), SQL, Neo4J, Cursor, Tableau
- **Visualization & Communication:** Matplotlib, Seaborn, Adobe Illustrator, Canva
- **Creative Production:** iPad Procreate, Animation Studio, Frame-by-Frame Editing
- **Languages:** Korean (native), English (fluent)
- **Certifications & Qualifications:** TRIZ Practitioner (2024), HarvardX Python for Data Science (2024), ABRSM (Associated Board of the Royal Schools of Music) – Grade 5 in Music Theory (2022)