Juhyun Lee

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○ jlee400

Personal Profile

Hard working, devoting Junior student majoring Computational & Data Sciences (BS) at George Mason University Korea looking to pursue a scientific research experience. Widely expanding knowledge related to Data Science not only in courses but also self-teaching from academic books and online courses. Currently processing deeper experience in Python, R and has basic experience in MATLAB, NetLogo, and Fortran. Experience in project research to apply data science-related, mathematical and statistical concepts to learned modules.

Education

George Mason University   *2023 - Present*
BS in Computational & Data Sciences

- ○ GPA: Junior
- **Relevant Modules:** Computational Scientific Programming, Agent-based Modeling and Simulation, Computational and Data Sciences, Modeling and Simulation I, Computing for Scientists, Analytic Geometry and Calculus I, Analytic Geometry and Calculus II, Linear Algebra, Introductory Statistics I, Introductory Statistics II

Muhak Girls' High School   *2020 - 2023*
High School Diploma

- ○ Curriculum: Science Focused Course
- **Courses taken:** (High School-level) Mathematics I, Mathematics II, Pre-Calculus, Probability and Statistics, Physics I, Physics II, Chemistry I, Chemistry II, Advanced Chemistry, Biology I, Biology II, Earth Science I, Earth Science II, English I, English II, Business English

Experience

Learning Assistant   *Incheon, South Korea*
George Mason University Korea   *February 2025 - Present*

- ○ Learning assistant for George Mason University Korea course

Program Assistant for Incheon Citizen Life College   *Incheon, South Korea*
Incheon Citizen Life College George Mason Korea Campus   *August 2023 - June 2024*

- ○ Learning assistant for Incheon Life College designed for citizen students who pursue everyday life learning opportunities
- ○ English translation of script, poster, pamphlet, and brochures
- ○ English interpretation for international honored guests of the program
- ○ Managed Opening, closing ceremony and George Mason University Korea 10th anniversary events
- ○ Leader of event staff for each opening and closing ceremony event

2023 Student-led International Exchange Academy Mentor   *Incheon, South Korea /*
Incheon Metropolitan Office of Education, NGO Onhappy   *Ulaanbaatar, Mongolia*
                                                                                                              June 2003 – Aug 2003

- ○ Collaborating with the Incheon Metropolitan City Office of Education and the NGO 'Onhappy,' engaged 23 local middle and high school students in weekly sessions focused on Environmental, Social, and Governance (ESG) principles and SDGs
- ○ Conducted thorough research and led classes emphasizing ocean conservation, particularly addressing the issue of 'ghost fishing' and its detrimental effects on marine biodiversity
- ○ Held Global Youth Forum in Ulaanbaatar, Mongolia, in July 2023, where we engaged in discussions with international peers. Additionally organized a local forum in Incheon to raise awareness about abandoned

fishing gear

Achievements and Awards

- 2024 Spring Dean's List
- Commendation of the Incheon Metropolitan City Office of Education
- Commendation of the National Assembly
- 2023 Spring Dean's List

Projects

'Computational and Data Sciences' course group project

github.com/jlee400/CDS101-final-project ☑

- Final 4-weeks length research project with 7 members after learning all the modules in 'Computational and Data Sciences' course.
- Research successfully completed with topic of 'Crop type and continent selection decision making for higher economic revenue' considering average temperature, CO_2 emissions, total precipitation, extreme weather events, fertilizer and pesticide usage of the region
- Modules such as data wrangling, tidying up, data visualization, explanatory data analysis, statistical inference, modeling, and predictive analysis were done with real-world dataset
- I took a leader role to construct overall project structure, conducted predictive analysis, and managed total flow of the long length of presentation
- A 40-minute presentation completed after the whole project
- Tools Used: R, Excel

'Modelling and Simulation I', course group project

GMU
December 2023

- Final 4-weeks length research project with 4 members after learning all the modules in 'Modeling and Simulation I' course.
- Research successfully completed with topic of libraries in Python such as Pandas, Numpy, Seaborn, matplotlib, etc. and modeling and linear regression were done with real-world dataset
- I took a leader role to construct overall project structure, conducted visualization and found relationships of each variable and managed total flow of the presentation awareness about abandoned fishing gear
- A 30-minute presentation completed after the whole project

Technologies

Languages: Python, R, Netlogo, Fortran, MATLAB

Soft skills: Punctual ability and leadership