Jay-Ho **Chung**

Neuroscience · Researcher · Data Scientist
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Edu**cation**

Middlebury College - B.A. Neuroscience   *Middlebury, VT*
Cumulative GPA: 3.96/4.00   *Sep 2019 - Expected May 2023*

Tec**hnical Skills**

- Python, R, SQL, LaTeX, Web-Scraping, Git, tidyverse, dplyr, ggplot2, tibble, tidyr, readr, stringr, gganimate, HTML, CSS, JavaScript

Wor**k Experience**

Spritzer Lab   *Middlebury, VT*
Research Volunteer   *Feb 2021 - Present*
- Researching effects of testosterone on spatial cognition of rats to examine adult neurogenesis and possible applications for Alzheimer's
- Utilized surgical micropipetting, histological analysis techniques with concepts such from neurogenesis, growth factors, and genetic data analysis

Middlebury Department of Mathematics   *Middlebury, VT*
Teaching Assistant & Grader   *Feb 2020 - Mar 2020*
- Assist students for Intro to Statistics with concepts on t-test, chi-squared test, regression, ANOVA, and data analysis
- Help students debug R, learn webscraping, and use R packages such as tidyverse, dplyr, ggplot2, tibble, tidyr, readr, and stringr
- Graded 40 assignments for 2 classes for 40 students for 4 times a week

Chonbuk National University Department of Biology   *Jeonju, South Korea*
Research Volunteer/Shadow   *Jul 2017 - Aug 2017*
- Worked on antibodies with mice, learned gel electrophoresis, centrifuge, micehusbandry, and micropippetting in Professor Sang Wook Oh's lab

Pro**jects**

Airplane Crash and Mortality Analysis ⚲   *Middlebury, VT*
Data Science Final Project   *May 2020*
- Used R to analyze airplane crashes and the mortality based on several factors, from plane model type to airline carrier

Cigarette Consumption Analysis ⚲   *Middlebury, VT*
Statistics Final Project   *November 2019*
- Used multiple regression and residuals plot to analyze and model cigarette consumption in the United States

Trail Difficulty Analysis ⚲   *Northampton, MA*
Smith College Intro to Data Science Project   *April 2018*
- Created interactive maps for the difficulty of hiking trails on Smith College land using spatial data packages

Hon**ors & Awards**

2019-20	**College Scholar**, Awarded to Middlebury College students with average GPA of 3.6+	*Middlebury, VT*
2019	**Dollars For Scholars**, Awarded to Northampton High School students for their academic work	*Northampton, MA*
2019	**National Honors Society**, Awarded to students with at least a 3.4 GPA and 50 hours of volunteer service	*Northampton, MA*
2018	**National Merit Scholarship Finalist**, Awarded based on Academic Merit and Top 1% PSAT Score	*Northampton, MA*
2018	**National AP Scholar**, Awarded to students with scores of 4 or higher on eight or more AP exams	*Northampton, MA*
2018	**AP Scholar with Distinction**, Awarded to students with avg score 3.5+ on all for five or more AP exams	*Northampton, MA*
2016	**ACS Chemistry Olympiad - Local Qualifier**, Top 20 Students of local region	*Amherst, MA*
2015-19	**First Honors Student**, Students who received above a GPA of 3.4	*Northampton, MA*

Rel**evant Coursework**

- **Middlebury College** - Biochemistry of Macromolecules, Cellular and Molecular Neuroscience, Cell Biology and Genetics, Ecology and Evolution, Organic Chemistry I, Advanced General Chemistry, Medical Ethics and Bioethics, Intro to Statistical Science, Intro to Psychology
- **Smith College** - Intro to Discrete Mathematics, Intro to Data Science
- **AP Exams** - AP Chemistry, AP Physics C: Mechanics, AP Physics C: Electricity and Magnetism, AP Calculus BC
- **Coursera** - Algorithms for DNA Sequencing