

Andrew Joonhyung Park

<https://andrewjpark.netlify.app> | <https://github.com/parkshub> | www.linkedin.com/in/andrew-jh-park | AndrewJHPark@protonmail.com

EDUCATION

Georgia Institute of Technology, Atlanta, GA (online) *Jan. 2023-Present*
Master of Science in Analytics

- Concentration: Data Analytics Track

UCLA Luskin School of Public Affairs, Los Angeles, CA *Sept. 2018-June 2020*
Master of Public Policy

- GPA: 3.856
- Awards
 - *Department of Public Policy Fellowship*
 - *Franklin D. Gilliam, Jr. Social Justice Award*

Purdue University, West Lafayette, IN *Aug. 2012-Dec. 2016*
Bachelor of Science in Psychological Sciences

- Semester Honors: Spring and Fall 2016 (GPA 3.93, 4.0, respectively)

Purdue in Germany, Immigration Health Study, Berlin, Germany *May 2016*

- Study abroad program with a focus on the refugee crisis.

PROGRAMMING SKILLS

- CSS, HTML, JavaScript, Machine Learning, MongoDB, Natural Language Processing, Next.js, Node.js, Octave, PostgreSQL, Python, R, React.js, Redux, Scikit-learn, STATA, TensorFlow

PROFESSIONAL EXPERIENCES

Freelance Software Engineer | Allgäu, Germany (remote) *Dec. 2023-Present*

- Collaborating with another developer to create a full stack web application for a client running a security company.
- Integrating Express.js and Next.js for optimal performance in both the front and backend.
- Creating a system that allows our client to create subpages independently.

100Devs | Los Angeles, CA (Remote) *Jan. 2022-June 2023*
Software Engineer Apprentice – Leon Noel

- Collaborated with a team of developers to build modern and responsive web applications using best practices.
- Applied agile methodologies like SCRUM for project management.
- Built semantically structured full stack web applications (link, link, link).

California Center for Population Research | Los Angeles, CA

Jun. 2019-Aug 2019

Research Assistant – UCLA PhD Candidate in Economics, Tomás Guanzirolí

- Created a web scraping script using R to gather information about an individual's academic and professional history to later match with data provided by the government (link).
- Utilized the script to compile hundreds of thousand data points on the population of interest.
- Conducted literature reviews regarding various definitions of the labor market and its relationship to globalization, immigration, and crisis.

Hanyang University | Seoul, South Korea

Mar. 2017-June 2018

Medical College Research Assistant – Dr. Ahn's Mental Health Research Lab

- Collected data regarding the effectiveness of the lab's robot tracking diagnostic test for children with ADHD in comparison to conventional diagnostic tools.
- Gathered data from the experiment to help publish a poster for the Korean Association of Child and Adolescent Psychiatry (*Robot motion tracking analysis in Attention-Deficit/Hyperactivity Disorder*).
- Outsourced the lab's experiment to two elementary schools for a month and a half each and conducted psychological screening using a series of questionnaires and tests.

PROJECTS

Airbnb Client Full Stack Web Application | 100Devs

Mar. 2023-June 2023

- Led a team of developers to create a full stack web application for a client running an Airbnb in McAllen, Texas.
- Handled admin authentication using Next Auth's Google authentication.
- Integrated Jodit's rich text editor for our client to create their own blog posts (link).

Portfolio Tracker – MERN Stack | 100Devs

Feb. 2023-June 2023

- Built a MERN stack web application using Redux and Material where users can browse various coins and record their buy and sell transaction to track the progress of their portfolio (link).
- Gathered and wrangled data from Coingecko's API to use in various graphs.
- Implemented a system to minimize the number of API calls where one user's request updates the data displayed on the web page for all users.

Eventer - California – MERN Stack | 100Devs

Oct. 2022-Jan. 2023

- Created a MERN stack application using Redux where users can create or attend events within California (link).
- Encrypted passwords using salting and hashing through bcryptjs and authenticated users using JWT.
- Formed references between models and used .populate() for a more relational-database-like structure.

Convolutional Neural Network: Dog Breed Classifier – Python *Oct. 2021-Mar. 2022*

- Concatenated convolutional neural networks to predict a dog's breed from a class of 133 breeds (link).
- Efficiently trained the network using bottleneck features.
- Recorded the performance and efficiency of different optimization techniques and reached an accuracy of 89%.

Neural Network: Text Message Filter - Python *July 2021-Sep. 2021*

- Vectorized SMS text data using Scikit-learn and trained a neural network without the use of APIs to discern spam from ham messages (link).
- Programmed a gradient checking function to check for proper implementation of backpropagation.
- Achieved fast training time using minibatches and accomplished an accuracy above 98% with Adam optimization.

PROFESSIONAL DEVELOPMENTAL COURSES

Convolution Neural Network *Oct. 1, 2022*

By DeepLearning.AI

Certificate Issued by Coursera

- Explored and created various computer vision architectures (e.g. ResNet-50, YOLO and U-Net) appropriate for tackling autonomous driving and object detection using TensorFlow in Python.

**Improving Deep Neural Networks:
Hyperparameter Tuning, Regularization, and Optimization** *Aug. 29, 2022*

By DeepLearning.AI

Certificate Issued by Coursera

- Analyzed how initialization, regularization, and other hyperparameters affect the bias and variance of neural networks using Python.

Natural Language Processing with Python *Aug. 2, 2021*

By instructor Jose Portilla

Certificate Issued by Udemy

- Categorized text using Support Vector Machine (SVM).
- Performed sentiment analysis using “SentimentIntensityAnalyzer.”
- Pipelined simple processes such as vectorization and SVM.

Neural Networks and Deep Learning *Aug. 13, 2021*

By DeepLearning.AI

Certificate Issued by Coursera

- Delved deep into the idea of machine learning and built our own neural network in Python without the use of APIs.

Database Design and Basic SQL in PostgreSQL *July 20, 2021*

By the University of Michigan (online)

Certificate Issued by Coursera

- Overviewed the basic concept of relational databases and practiced creating and calling in databases using DBeaver.

Machine Learning

July 9, 2021

By Stanford (online)

Certificate Issued by Coursera

- Covered a wide range of topics in machine learning within a span of three months using Octave.
- Set up a function to perform forward and back propagation only using matrix multiplication.
- Condensed inputs' features into their essentials using Principal Component Analysis (PCA).
- Built algorithms using supervised learning.
- Assembled unsupervised learning algorithms such as k-nearest neighbors, anomaly detection, and SVM.

Applied Plotting, Charting & Data Representation

June 29, 2021

By the University of Michigan (online)

Certificate Issued by Coursera

- Reviewed fundamental to intermediate charting in Python.

Introduction to Data Science in Python

May 19, 2021

By the University of Michigan (online)

Certificate Issued by Coursera

- Recalled Python syntaxes.

Data Analysis with Python

Apr. 25, 2021

By IBM

Certificate Issued by Coursera

- Received an overview of data analysis in Python.

An Intuitive Introduction to Probability

Apr. 16, 2021

By the University of Zurich (online)

Certificate Issued by Coursera

- Reexamined the basic concepts of probability.

RESEARCH ACTIVITIES

Capstone Project

June 2020

UCLA Luskin School of Public Affairs | Los Angeles, CA

- Title: “*Treatment of Opioid Use Disorder in Los Angeles County Jails: Increasing Access to Buprenorphine for Medication-Assisted Treatment*” (link)
- Co-authors:
 - Victoria Lewis, M.P.P, M.D. (vlewis@mednet.ucla.edu)
 - Lynn Kysh, M.P.P (lkysh@chla.usc.edu)

Purdue University | West Lafayette, IN

Aug. 2016-Dec. 2016

Department of Psychology Research Assistant – Dr. Arriaga’s Relations Research Lab

- Coded behavioral data collected from undergraduate couples to help identify variables that affect a relationship’s longevity.
- Researched and presented other possible factors affecting a relationship’s longevity on a monthly basis.

Purdue University | West Lafayette, IN

Aug. 2016-Dec. 2016

Department of Psychology Research Assistant – Dr. William’s Ostracism Research Lab

- Implemented the game, Cyberball, on undergraduates to measure the effects of an individual’s perceived ostracism before and after the game.
- Coded textual data for specific indicators of ostracism.

Purdue University | West Lafayette, IN

Aug. 2015-Dec. 2015

Department of Psychology Research Assistant – Dr. Proctor’s Cognition Research Lab

- Performed the Simon task on undergraduate students to compare their reaction times when a stimuli’s location corresponded to their hand or feet versus when it did not.

CONFERENCE PARTICIPATION

National Center for Mental Health | Seoul, South Korea

Mar. 2017

Interpreter & Presenter

- Served as a bilingual interpreter for an international symposium in collaboration with the National Center for Mental Health (S. Korea), Institute of Mental Health (Singapore), and National Center of Neurology and Psychiatry (Japan).
- Translated and presented materials regarding crisis management through mental health services.

Taewha Fountain House Conference | Seoul, South Korea

Mar. 2017

Interpreter

- Served as a bilingual interpreter for Singapore's National Council of Social Service conference with Taewha Fountain House on the upcoming policy changes regarding the institutionalization of the mentally ill in South Korea.

VOLUNTEER EXPERIENCE

Taewha Fountain House | Seoul, South Korea

Jun. 2015-Aug. 2015

English Teacher

- Taught English to recovering psychiatric patients to assist their way back into society.

Municipal Social Welfare Center | Seoul, South Korea

Apr. 2014-June 2014

Facility & Delivery Volunteer

- Delivered food to impoverished elders, cleaned the kitchen, and took care of the facility in general.

LANGUAGES

- English, Korean, conversational Japanese