Isaac Yoon

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EDUCATION

University of California, Berkeley
Major: Molecular & Cell Biology (Immunology)
GPA: 3.49

Bachelors of Arts
Class of 2015

University of California, Los Angeles-Ext
GPA: 3.95

post-baccalaureate

EXPERIENCE

University of Southern California
Lee Lab - Microbiology, Immunology, and Molecular Genetics
Laboratory Technician

Los Angeles, CA
[08/2018 – 11/2018]

- Performed next-generation sequencing, Sanger sequencing, viral RNA extraction, RT-PCR, PCR, and other duties as needed for a NIH-funded project studying HIV intra-host evolution
- Wrote, updated, and maintained protocols for projects
- Maintained lab inventory and supplies
- Created cost analyses spreadsheets on research methods for project goals
- Conducted literature searches

C2 Education
Teacher

Los Angeles, CA
[07/2018 – 11/2018]

- Taught a variety of subjects ranging from Algebra, SAT math, Biology, Calculus, and Statistics in a 3:1 student: teacher ratio

Brittain College
English Teacher

Peru
[05/2018 – 06/2018]

- Taught English to students in elementary school and middle school

University of California, Los Angeles
Hematology/Oncology
Staff Research Associate

Los Angeles, CA
[10/2017 – 05/2018]

- Tested and screened large amounts of compounds for potential therapeutic benefits to hemopoietic stem cell regeneration
- Collected and analyzed data using Stata, GraphPad, and Microsoft Excel
- Performed tail vein injections and bone marrow harvest + cell isolation in mice
- Maintained lab inventory and performed lab maintenance duties as assigned

University of California, San Francisco
Werb/Fong Lab – Department of Anatomy
Undergraduate Researcher

San Francisco, CA
[05/2014 – 08/2015]

- Developed a 10-color flow cytometry panel to evaluate immune infiltration and activation of T cells in tumor cells and multiple systemic organs using a mice model
- Performed organ harvest of mammary glands, lungs, spleen, and various tissues for analysis in flow cytometer and technically difficult surgeries like blood perfusions
- Performed various lab duties such as paraffin embedding of tumor and normal tissues
- Collected and analyzed data using flow cytometry

University of California, Berkeley – Schaffer Lab
Stanley Hall
Research Assistant

Berkeley, CA
[01/2013 – 06/2013]

- Administered daily cyclosporine injections intraperitoneally to rats in the NAF for a project analyzing whether membrane bound stem cells would increase the likelihood of differentiating into cells that release dopamine in the brain

University of California, Berkeley – Harris Lab (School of Public Health)   Berkeley, CA
Li Ka Shing Center – Biomedical and Health Sciences   [06/2012 – 08/2012]
Research Assistant

- Worked full time during the summer and helped a postdoctoral student with his project involving dendritic cells and dengue virus
- Learned various techniques such as intradermal injections, making plaque assays, growing and splitting cell cultures, infecting cell culture lines, and harvesting and concentrating dengue virus from the cell cultures
- Learned how to euthanize and anesthetize the mice and performed organ harvest of lymph nodes and intradermal injections
- Regularly checked up on mice for their morbidity levels and weights for an influenza project and dengue project
- Attended weekly lab meetings that discussed related papers and findings to the dengue project

LEADERSHIP & OTHER EXPERIENCES

Foundations Choreography - UCLA   Los Angeles, CA
Captain   [9/2017 – 12/2017]
- Main responsibility: to be the bridge between Foundations members and leadership
- Handled administrative matters regarding the team including but not limited to: coordinating team gear purchases, rides to events, and social events
- Led team stretches and warm-ups before practice

Thrive Scholars formerly known as **South Central Scholars**   Los Angeles, CA
General Chemistry TA   [06/2016 – 08/2016, 06/2018 – 08/2018]
- Developed and taught a general chemistry course with Professor Harran from UCLA
- Led problem solving sessions to supplement class
- Wrote and graded quizzes and exams

Good Samaritan Hospital – Heart and Vascular Department   Los Angeles, CA
Los Angeles Cardiology Associates – Private Practice
Shadow & Intern   [08/2015 – 01/2016]
- Went on rounds with cardiologists and nurse practitioners
- Wrote patient histories
- Observed interventional cardiology surgeries: TAVR, IVC filter as well as open heart surgery (CABG)
- Shadowed out-patient visits
- Attended lectures on various topics: Structural Heart Therapies, New Therapeutic Approaches to Chronic Headache, Physician Assisted Suicide: A Surgeon's Perspective, and others
- Interpreted in Korean
- Maintained a clinical database
- Created patient surveys for research

The Hep B Project   Berkeley, CA
Healthcare Volunteer   [09/2013 – 05/2015]
- Participated in weekly clinics catering to people who lack adequate health care or awareness or health insurance in regards to Hepatitis B by making phone calls with patients for follow-up screenings (using Korean, English, or Spanish), and filling out patient information forms

Thrive Scholars formerly known as **South Central Scholars**   Berkeley, CA
UC Berkeley Regional Director   [04/2014 – 06/2015]
- Maintained a database of scholars from UC Berkeley and networked with current scholars attending UC Berkeley
- Served as a mentor for current scholars attending UC Berkeley by checking academic progress, personal updates, and discussing long term goals and how to achieve goals for scholars
- Coordinated social networking activities
- Reported all activities and expenses and remitted to South Central Scholars: event/activity reports, sign-in sheets, journal log, and an end of the year report

SKILLS & CERTIFICATIONS
Microsoft Office, cell culture, virus culture, intraperitoneal injections, intradermal injections, blood perfusions, flow cytometry, mice & rat models (animal handling), ELISA assays, immunoprecipitation, PCR, Western Blot, Stata, GraphPad, tail vein injections, RNA extraction
Basic Life Support Certification (expires Jan 2021), among others

Awards:
Berkeley Undergraduate Scholarship
Dean's Honors Spring 2013 and Fall 2013
South Central Scholars Scholarship
Korean Heritage Scholarship
KIMBO Foundation Scholarship

Spoken Languages: Korean (native/bilingual) & Spanish (limited working fluency)

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t: 323.774.3365   **e:** iyoon22@gmail.com   **a:** Los Angeles   [Portfolio](#)   [Linkedin](#)   [GitHub](#)

Skills

React.js, Redux, JavaScript, HTML5, CSS3, Ruby on Rails, jQuery, SQL, postgreSQL, AWS,, MongoDB, Node.js, Git, Python

Projects

DisArray (React/Redux, Ruby on Rails, PostgreSQL, HTML5, CSS3, Heroku)   [live site](#) | [github](#)

Inspired by Discord, a popular messaging app

- Leveraged Rails' Action Cable and Redis to manage websocket connections for live chat functionality, allowing users to communicate in real time
- Implemented server and channel creation utilizing RESTful APIs to handle multiple CRUD operations, giving users the ability to customize their UI/UX and enhance the overall user experience
- Utilized Amazon Web Services for faster lookup on user uploaded background images
- Developed a single-page app using client-side routing with React Router, eliminating the need for page refreshes to create a seamless navigation experience

Harmony-Music (JavaScript, React/Redux, MongoDB, socket.IO, CSS3, Node, Express, Webpack)   [live site](#) | [github](#)

Interactive app that allows users to create music solo or with friends

- Designed and implemented a database schema with MongoDB as Backend Lead to manage user information as well as music information
- Incorporated Git workflow protocols and collaborated with a team of 3 software developers
- Connected socket.IO with React/Redux to enable users to interact with other users, allowing chat functionality, music visualization, and music creation in real time

Logos (JavaScript, HTML, CSS, Canvas, Heroku)   [live site](#) | [github](#)

Game to guess the missing word in bible verses

- Applied Object-Oriented programming with unique classes to illustrate separation of concerns design, resulting in more modular code
- Manipulated text to handle overflow cases and handle pixel differences within set parameters of canvas
- Utilized a randomized index to dynamically hide a word, resulting in a unique user experience with each game
- Implemented a hint button that progressively displays the hidden word, character by character by utilizing Javascript's slice function and caching the hidden word within Game state

Experience

Laboratory Technician | University of Southern California, August 2018 - November 2018
- Performed next-generation and Sanger sequencing, viral RNA extraction for a NIH-funded project

Teacher (STEM) | C2 Education, Los Angeles, July 2018 - November 2018

English as a Second Language Teacher | Brittain College, Peru, May 2018 - June 2018

Staff Research Associate | University of California, Los Angeles, October 2017 - May 2018

General Chemistry TA | University of Southern California, June 2016 - August 2016, June 2018 - August 2018

Shadow & Intern | Los Angeles Cardiology Associates - Good Samaritan Hospital, August 2015 - January 2016
- Observed cardiology surgeries, maintained clinical database, and surveyed patients for research

Education

App Academy | Spring 2020 | San Francisco, CA

1000-hour immersive full-stack web development intensive with <3% acceptance rate

University of California, Berkeley | B.A. in Molecular and Cell Biology - Immunology | 2011-2015