Armenuhi Avanesyan

EDUCATION:

09/13-07/16	**B.S. in Microbiology,** *University of California San Diego- La Jolla, CA*
02/25-Present	**Certificate in Full-Stack Web Development,** *University of Washington*, WA

SKILLS and MERITS:

- Knowledge of HTML & CSS
- Working knowledge of **PCR, Nano plasmid and plasmid preparation methods**, and sequencing
- Working knowledge of **electroporation, lipofection,** and **addition of nanoparticles** to different cell lines
- Working knowledge of **virus preparation** and addition to cell lines
- Worked with various cells: **human CD34+, T cells, HUDEP2, HEK293T, TF1a, Huh7, HepG2, etc.**

- Knowledge of Javascript & Jquery
- **RNA Mini & Maxi Preparation**
- Experienced in analyzing large sets of data using **Excel** and **Prism**
- **Presentation of multiple projects** at company and group meetings
- Working knowledge of **Flow Cytometry** and **FlowJo software** use
- Knowledge of Python
- **Benzidine staining** and **cytospin single cell slide preparation**
- **Erythroid expansion assay** development

- Experience in **culturing and manipulation of mammalian cell lines**
- **Methylcellulose CFU assay plating and analysis**
- Ability to work independently on projects or with members of the team
- Experience in managing and ordering of group materials for experiments
- Diligent and patient when training team members

WORK EXPERIENCE:

01/20-Present **Process Development Associate,** *Fred Hutchinson Cancer Research Center – Seattle, WA*
- Currently working on pre-clinical trial therapeutics for CAR-T cell companies in order to establish them for larger scale manufacturing.
- Implementing operation and maintenance guidelines for a new flow cytometer within the lab.

08/16-09/19 **Research Technician, Gene Therapy,** *Poseida Therapeutics Inc, La Jolla, CA*
- Creation of a high throughput chemical compound screening method and analysis for hematopoietic stem cells.
- Optimized CD34+ Stem cell CFU assays and data collection.
- Performed electroporation and DNA/RNA preparation for various purposes.
- Flow cytometry data analysis using FlowJo and Prism and data presentation in weekly lab meetings.
- Management and organization of group lab materials and FACS projects.
- Training new group members on the use of cytometers, lab techniques, and general lab requirements.
- Erythroid expansion assay development and optimization.

06/15-06/16 **Immunology Department Research Intern,** *The Scripps Research Institute, La Jolla, CA*
- Performed weekly extractions of mouse tail DNA and genotyping.
- Clearly organized lab chemicals, reagents, and other materials into easily accessible excel sheets for other lab members and me to be able to quickly reach.
- Used an Aria Sorter to label and visualize the presence of different subsets of cells.

09/14-09/16 **English Conversation Leader/ TA,** *UCSD Extensions – La Jolla, CA*
- Improved students' English communication and understanding of American culture and traditions.
- Collaborated with teachers to plan creative lesson plans in order to increase student interest in class material.
- Lead tours around campus for international professionals and students, to help them become better acquainted with the school.

09/14-12/15 **Biology Instructional Assistant**, *UCSD Biological Sciences, - La Jolla, CA*
- Taught students evolutionary biology

- Created PowerPoints for each discussion section, which included summaries of the professor's lectures and supplemental review materials.
- Used MS Excel to organize grading materials and student information and MS Word to create final and midterm review questions for students.
- Created review session materials and collaborated with other teaching assistants to delegate responsibilities.

09/12-05/13   **Calculus Tutor,** *Glendale Community College Learning Center- Glendale, CA*
- Provided students with better techniques for studying and actively understanding the information given in class.
- Encouraged student/ professor communication when students were not understanding the lectures.
- Promoted independent thinking during tutoring sessions and developed various approaches in explaining a concept to students with different levels of understanding.

06/12-02/13   **Testing Assistant,** *Glendale Community College Assessment Center- Glendale, CA*
- Prepared monthly schedules using MS Excel for the testing center student-employees.
- Administered group/ individual placement test and met with students to inform them of available resources on campus.
- Provided front desk service to incoming students and professors, along with managing phone calls and preparation of student files.

VOLUNTEER EXPERIENCE:

11/16-06/19   **Head Research Coordinator**, *Health Frontiers in Tijuana– Tijuana, Mexico*
- Contacted/ recruited volunteer physicians to attend the clinic and ensured that all volunteers, interns, and physicians understood how the clinic operates.
- Registered patients, took vitals, and assisted doctors in taking S.O.A.P. notes.
- Improved clinic productivity by creating more stations for doctors to see patients and creating a medicine organization system.
- Implemented a new note-taking system.
- Created a structure of leadership within the organization.
- Expanded the diversity of the group of interns and created codes of conduct for interns and incoming physician volunteers.
- Created the U.S. based non-profit to support the free clinic in Tijuana.

12/14-09/16   **Director (2015-2016) and Cast Member (2014)**, *UCSD V- Monologues Show– La Jolla, CA*
- Persuaded companies such as, Yogurt World and Tapioca Express, to donate to the V-Monologues Show, of which $15,000 of the contributions were sent to an organization supporting victims of domestic violence in immigrant families.
- Collaborated with various UCSD staff and organizations in preparation for the upcoming show.
- Prepared seminars to educate young women on sexual and reproductive health.
- Was an acting coach to more than 20 women performing in the show.
- Worked with several women to help them deal with trauma, past sexual, or verbal abuse in their personal lives.

AWARDS and OTHER SKILLS:

William Stout Scholarship Recipient, UCSD
Spoken & working languages - Enlgish, Russian, Spanish, and Armenian
Bioinformatics Certificate Program Scholarship (LAUNCH) Recipient

ABSTRACTS:

Nina Timberlake1 , Maximilian Richter1 , Xinxin Wang1 , Claire Koechlein1 , Armenuhi Avanesyan1 , Nicholas Cam1 , Yening Tan1 , Natalie Chen1 , Kip Hermann2 , Bruce E. Torbett2 , Eric M. Ostertag1 , Devon J. Shedlock1 and Julian D. Down1

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References and Professor Evaluations available upon request