Renhao Luo

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EDUCATION

University of California, Irvine   **June 2019**
Major in Biological Sciences
Minor in Bioinformatics
Cumulative GPA: 3.852

AWARDS

Excellence in Research   **November 2017-May 2018**
- Designed and performed an individual research project titled "Preventing Learning and Memory Deficits Following Febrile Status Epilepticus (FSE) in Rats."
- Gave an oral and poster presentation to faculty members and other participants.
- Resulted in publication and awarded "Excellency" by School of Biological Sciences

Undergraduate Research Opportunities Program (UROP)   **October 2017-May 2018**
- Fellowship and symposium
- Awarded $400 based on scientific proposal that I designed and wrote

Dean's Honor List (10 quarters)
- Awarded to undergraduate students to recognize high academic achievement

RESEARCH EXPERIENCE

Baram Lab   **August 2016-Present**
Undergraduate Research Assistant | *Department of Pediatrics, UC Irvine*
- Create new protocols to standardize electroencephalogram (EEG) analysis and trained other members
- Analyze over 3000 hours of EEG data.
- Gain hands on experiences in lab techniques and make sure the experiments are conducted properly and on time.
- Perform preparation and cleaning tasks with surgical tools, chemicals, animals and necessary equipments for experiments.

INDEPENDENT STUDY

Lathrop Lab   **September 2018-Present**
Student | *Department of ICS, UC Irvine*
- Replicate studies and analyze from publication dealing in Principal Component Analysis (PCA), Hidden Markov Model (HMM), Smith Waterman alignment, etc.
- Experiences with preprocessing of sequencing data and genome assembly downstream analysis.
- Experiences with data visualization, setup visual environment, and working on High Performance Cluster (HPC)

PUBLICATIONS

- **R. Luo**, T.Z. Baram. (2018). "Blocking Prostaglandin E2 Binding to the EP2 Receptor Will Prevent Long Term Learning and Memory Deficits Following Febrile Status Epilepticus (FSE) in Rats" *Journal of Undergraduate Research in Biological Science,* UC Irvine School of Biological Sciences.
- Paper in preparation: A. M. Hall, G. A. Sanchez, M. M. Curran, **R. Luo**, T. Nguyen, S. Parthasarathy, H.-S. Mun, L. A. Lucero, J. Daglian, T. Z. Baram. Experimental Febrile Status Epilepticus in Mice Increases Seizure Susceptibility and Promotes Spontaneous Seizures. Participate since 2018 Summer.
- Paper in preparation: M.M. Curran, **R. Luo**, S.Y. Yoon, M. Sargious, T.Z. Baram. The effect of specific EP2 blockade on hyperexcitability and cognitive deficits following experimental Febrile Status Epilepticus. Participate since 2016 Fall.

ORAL AND POSTER PRESENTATIONS

- A. M. Hall, G. A. Sanchez, M. M. Curran, **R. Luo**, T. Nguyen, S. Parthasarathy, H.-S. Mun, L. A. Lucero, J. Daglian, T. Z. Baram. "Experimental Febrile Status Epilepticus in Mice Increases Seizure Susceptibility and Promotes Spontaneous Seizures" UCI Epicenter Annual Symposium, Irvine, CA, March 2019
- A. M. Hall, G. A. Sanchez, M. M. Curran, **R. Luo**, T. Nguyen, S. Parthasarathy, H.-S. Mun, L. A. Lucero, J. Daglian, T. Z. Baram. "Experimental Febrile Status Epilepticus in Mice Increases Seizure Susceptibility and Promotes Spontaneous Seizures" Neuroscience 2018 (SfN 2018), San Diego, CA, November 2018
- **R. Luo,** T.Z. Baram. "Preventing Learning and Memory Deficits Following Febrile Status Epilepticus (FSE) in Rats" 2017-2018 Undergraduate Research Opportunity Symposium, Irvine, CA. May 2018
- **R. Luo,** T.Z. Baram. "Preventing Learning and Memory Deficits Following Febrile Status Epilepticus (FSE) in Rats" 2017-2018 Excellence in Research Symposium, Irvine, CA. April 2018
- **R. Luo,** T.Z. Baram. "Preventing Learning and Memory Deficits Following Febrile Status Epilepticus (FSE) in Rats" 2017-2018 Excellence in Research Oral Presentation, Irvine, CA. April 2018

PROFESSIONAL MEMBERSHIP

- August 2018-present: Student Member, Society of Neuroscience.

TEACHING EXPERIENCE

Computer Science Lab Tutor   **March 2018-June 2018**
Department of ICS, UC Irvine

- Helped a group of 20-25 students to understand the concept in programming by explaining examples, project examples, etc.
- Provided guidance to students on solving programming problems and practice questions, including program assignments, practice exams, etc.
- Associated the teaching assistant (TA) to manage administration tasks.
- Recognized as a responsible lab tutor by students in the lab.

EMPLOYMENT EXPERIENCE

Housing Office Lead   **June 2017-Present**
Campus Village Housing, UC Irvine

- Manage 15 employees and use different approaches to address various issues that coworkers have.
- Work closely with professional staff to create and implement new strategies to build a better working environment and community.
- Provide mentorship to my co-workers on job training and academic planning.
- Organize and run biweekly meetings with all employees and supervisors to address co-worker's and resident's needs and concerns.
- Recognized as "the favorite student staff" by the professional staff.

Community Assistant   **June 2016-June 2017**
Campus Village Housing, UC Irvine
- Provided service to residents and other community members calling or visiting the office
- Described as "the person wants to work with the most" by the residents, coworkers.
- Implemented design changes to ensure that the community center remained a welcoming space
- Provided academic mentorships to residents

EXTRACURRICULAR ACTIVITIES

BioSci International Student Association at UCI   **September 2017-September 2018**
Founding member
- Participated in campus-wide social, academic, and community-service events

Chinese Association at the UCI (CAUCI)   **December 2015-Spring 2018**
Club member
- Helped students who had recently moved here from overseas to acclimate and feel welcome on campus

Chinese Association Traditional Dance Crew (CATCN)   **December 2015-June 2016**
Dancer
- Attended weekly practice for about 12 hours per week
- Performed on the "Culture Night", an annual Chinese culture show to help share Chinese culture with UCI students and faculty.

SKILLS
- Fluent Mandarin. Intermediate level German.
- Experienced with Python, Linux, R, ImageJ, Adobe Photoshop, Adinstrument LabChart