

SHAOBO (SEBASTIAN) LI, *Ph.D.*

📍 Los Angeles, CA

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EDUCATION

University of Southern California 2018.08 – 2022.05

Doctor of Philosophy in Cancer Biology and Genomics (Bioinformatics)

- Dissertation: Perinatal epigenetic and genetic analyses in childhood cancers

Fudan University, Shanghai, China 2009.09 – 2014.06

Bachelor of Medicine (Forensic medicine)

- Coursework: Anatomy, Psychiatry, Radiology, Surgery, Internal Medicine, Obstetrics and Gynecology
- Thesis: Expression of CPEB4 in invasive ductal breast carcinoma and its prognostic significance

WORK EXPERIENCE

University of Southern California, Center for Genetic Epidemiology Los Angeles, CA

Postdoctoral fellow 2022.05 – Present

- Adopted machine learning and deep learning methods to predict childhood leukemia, and eye diseases with DNA methylation data
- Germline and somatic mutation analysis of WGS and WES data in children and adults
- Led a meta-analysis project of US National Institutes of Health (NIH) Pregnancy and Childhood Epigenetics (PACE) study about the effects of birth order on perinatal DNA methylation
- Led collaborations with European (Danish and Sweden) cohorts on meta-analysis of childhood glioma GWAS studies
- Trained new PhD students and pediatrician research fellows

University of Southern California, Center for Genetic Epidemiology Los Angeles, CA

Predoctoral fellow, Research Assistant 2019.06 – 2022.05

- Genetic and epigenetic analysis of leukemia, pediatric glioma, and other childhood cancers

University of California, Berkeley, School of Public Health Berkeley, CA

Research Affiliate 2019.07 – Present

- Genetic association and ancestry analyses for CCLS (California Childhood Leukemia Study)

Zhongshan Hospital Shanghai, China

Volunteer Clinical Researcher 2014.09 – 2018.06

- Glucose metabolic dysfunction in OSAHS patients and its interference with CPAP (Department of Respiration)
- FENO as a novel respiratory indicator for patients with OSAHS (Department of Respiration)
- Application of CT-based radiomics in predicting portal pressure and patient outcome in portal hypertension (Department of Gastroenterology)

LOFT Education Online, China

Founder and English Lecturer 2014.06 – 2018.06

- Online English learning platform with originally designed courses in written and oral English

PUBLICATIONS

21 peer reviewed publications (4 first author, 1 first author under review, 2 first author in submission), full list available on ORCID <https://orcid.org/0000-0002-0544-5338>

RELEVANT SKILLS

Data Analysis: Data Cleaning, Visualization, Modelling, Prediction, Machine Learning, Deep Learning, Statistical genetics, Ancestry Analyses, Survival Analyses

Programming: R, Python, C, Linux/Unix (HPC), SQLITE, JAVA, SAS, STATA, SPSS

Bioinformatics: EWAS, GWAS (SNPTEST, PLINK), GATK, Dock/Singularity

Languages: English, Mandarin, Japanese

OTHER SKILLS

Digital multimedia production: Proficient in graphic and video productions using Adobe Suite (Photoshop, Illustrator, Lightroom, After Effect), Apple Final Cut Pro, and Apple Motion.

- Producer of USC Keck School of Medicine Virtual Commencement Videos (2020, 2021)
- First Prize in Keck School of Medicine Research Video Competition (2020)
- First Prize of Cambridge Business English (China) video competition (2012)
- First Prize of U21 United Nations Millennium Development Goals (UNMDG) Video Competition (2012)