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 follows

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 papers), 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)