

Mihir G. Sukhatme
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Department of Human Genetics

David Geffen School of Medicine at UCLA

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EDUCATION

University of California, Los Angeles (UCLA)

September 2021 – Present

B. S. in Computational and Systems Biology, GPA 3.96

RESEARCH EXPERIENCE

Department of Human Genetics, David Geffen School of Medicine at UCLA,

Undergraduate Researcher

October 2022 – Present

- Conducted independent research to explore differences in subcutaneous and visceral adipose tissue from individuals with obesity
- Built polygenic risk scores using biobank-level data to identify abdominal obesity risk associations for *trans* genes
- Processed and analyzed single-nucleus sequencing data from human adipose tissue

VantAI

Summer Undergraduate Research Intern

June 2022 - August 2022

- Developed preliminary machine learning models to predict E3 ligase patch functionality
- Presented findings and progress in weekly standups and a final group-wide seminar

TEACHING EXPERIENCE

Department of Physics and Astronomy

Undergraduate Learning Assistant

Winter 2024, Spring 2024

- Facilitated learning by assisting graduate Teaching Assistants in Thermodynamics, Fluids, Waves, Light, & Optics Laboratory for multiple lab sections per quarter
- Learned teaching and communication techniques in weekly seminars and discussed improvements to physics labs during a weekly content review meeting

PUBLICATIONS

1. **(Accepted, In Press)** Lammi V et al., Long COVID Host Genetics Initiative. [Genome-wide Association Study of Long COVID](#). *Nature Genetics*.
2. **(Under review)** Sukhatme MG, Kar A, Arasu UT, Lee SHT, Alvarez M, Garske KM, Gelev KZ, Rajkumar S, Das SS, Kaminska D, Männistö V, Peltoniemi H, Heinonen S, Säiläkivi U,

- Saarinen T, Juuti A, Pietiläinen KH, Pihlajamäki J, Kaikkonen MU, Pajukanta P. [Integration of single-cell omics with biobank data discovers trans effects of *SREBF1* abdominal obesity risk variants on adipocyte expression of more than 100 genes](#). *Nature Communications*. PMID: 39606332
3. **(Under review)** Chen ZJ, Das SS, Kar A, Lee SHT, Abuhanna D, Alvarez M, **Sukhatme MG**, Gelev KZ, Heffel MG, Zhang Yi, Avram O, Rahmani E, Sankararaman S, Heionen S, Peltoniemi H, Halperin E, Pietiläinen KH, Luo C, Pajukanta P. [Single-cell DNA methylome and 3D genome atlas of the human subcutaneous adipose tissue](#). Under review, *Nature Genetics*. PMID: 39554055
 4. The COVID-19 Host Genetics Initiative. [A second update on mapping the human genetic architecture of COVID- 19](#). *Nature* 621, E7–E26 (2023). PMID: 37674002

ABSTRACTS AND PRESENTATIONS

1. * **Sukhatme, MG** et al. (2024, November). Variants at adipocyte open chromatin act in *cis* and interact in *trans* on abdominal obesity risk [Poster presentation]. Annual meeting of the American Society of Human Genetics (ASHG), Denver, Colorado, USA.
2. Kar et al. (2024, November) Epistatic SNPs land in regulatory regions and possess a similar risk as GWAS SNPs in a common liver disease, MASLD [Poster presentation]. Annual meeting of the American Society of Human Genetics (ASHG), Denver, Colorado, USA.
3. **Sukhatme, MG** et al. (2023, November). Single-cell level analysis of obese individuals' two main fat depots discovers differences in cell-type marker genes and their genetic risks for obesity. [Poster presentation]. Annual meeting of ASHG, Washington D.C., District of Columbia, USA.
4. Arasu et al. (2023, November). Single Cell Multiomics Profiling of Visceral Adipose Tissue Reveals New Insights into the Genetic Regulation of Cardiometabolic Disease. [Poster presentation]. Annual meeting of ASHG, Washington D.C., District of Columbia, USA.

PROFESSIONAL AND VOLUNTEER ACTIVITIES

- American Society of Human Genetics, 2023 - Present
- Computational Biologists Society at UCLA, 2021 – Present
- Staff Member, Bruin Shelter at UCLA, 2022-Present
 - Participated in mutual aid activities involving the Los Angeles unhoused communities; worked overnight shifts at Santa Monica Shelter

AWARDS

- Winner of Reviewers' Choice Abstract Award at ASHG 2024 [abstract denoted with *]
- Irma and Norman Switzer Award, David Geffen School of Medicine at UCLA (2023, 2024)
- Dean's Honors List, College of Letters and Science, UCLA (Fall 2021, Winter 2022, Spring 2022, Fall 2022, Winter 2023, Spring 2023, Winter 2024, Spring 2024)