Curriculum Vitae WUSM Format
Sheng Chih Jin, Ph.D.

Date: 1/12/2025

Name Jin, Sheng Chih

Address, Telephone and email:

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Present Position:

April 2020 – Present, Assistant Professor of Genetics and Pediatrics

Education:

National Chiao Tung University, Hsinchu, Taiwan, 2000 – 2004
B.S., Applied Mathematics

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA, 2006 – 2008
ScM, Biostatistics

Washington University School of Medicine, St. Louis, MO, USA, 2010 – 2014
Ph.D., Human & Statistical Genetics (Advisors: Alison Goate and Carlos Cruchaga)

Yale School of Medicine, New Haven, CT, USA, 2014 – 2018
Postdoctoral Fellow (Advisors: Richard P. Lifton, Martina Brueckner, and Hongyu Zhao)

Rockefeller University, New York, NY, USA, 2018 – 2020
Postdoctoral Fellow (Advisors: Richard P. Lifton, Martina Brueckner, and Hongyu Zhao)

Academic Positions / Employment:

2020 – Assistant Professor of Genetics and Pediatrics
Washington University School of Medicine

Honors and Awards:

2007	Cancer Research Training Award, Biostatistics Branch, Division of Cancer Epidemiology & Genetics, National Cancer Institute, NIH
2007	Departmental Scholarship, Department of Biostatistics, Johns Hopkins University
2011	Lucille P. Markey Special Emphasis Pathway in Human Pathobiology Fellowship, Markey Foundation, Washington University School of Medicine
2012	Alzheimer's Disease International Conference Travel Fellowship, Alzheimer's Association
2012	Best Oral Presentation Award, Human and Statistical Genetics Program 2012 Retreat
2014	Finalist, Fourth Annual Hope Center Retreat Poster Session, Hope Center for Neurological Disorders, Washington University School of Medicine
2014	Howard Hughes Medical Institute Postdoctoral Fellowship, Department of Genetics, Yale University School of Medicine
2015	James Hudson Brown – Alexander Brown Coxe Postdoctoral Fellowship in the Medical Sciences, Yale University School of Medicine
2018	American Heart Association Postdoctoral Fellowship
2019	NIH/NHLBI K99/R00 Pathway to Independence Award
2019	Postdoctoral Association Career Development Award, Rockefeller University
2020	Rockefeller University Nominee, Blavatnik Regional Award for Young Scientists
2021	Children's Discovery Institute Faculty Scholar, St. Louis Children's Hospital
2021	Hydrocephalus Association Innovator Award
2022	Pediatric Cardiac Genomics Consortium and Cardiovascular Development Data Resource Center Challenge Prize

Editorial Responsibilities:

2013 –	**Ad Hoc Reviewer**, Journal of the American College of Cardiology, Trends in Genetics, Genome Research, European Heart Journal, Nature Communications, eBioMedicine, PLoS Genetics, npj Genomic Medicine, Brain, Molecular Neurodegeneration, Genomics, Proteomics and Bioinformatics, Human Genetics, BMC Neurology, Journal of Alzheimer's Disease, Alzheimer's & Dementia, Genes, Journal of Medical Genetics, Biomolecules, STAR Protocols, Journal of Personalized Medicine
2013 –	**Review Editor**, Frontiers in Genetics, Neurogenomics Section

National Panels, Committees, Boards:

N/A

Community Service Contributions:

- **University Appointments and Committees**

2020 – **Member**, DBBS Admissions Committee B, Washington University School of Medicine
2023 – **Co-organizer**, Hope Center Monday Noon Seminars

- **Professional Societies and Organizations**

2011 – **Member**, American Society of Human Genetics
2015 – **Member**, American Heart Association
2023 **Planning Committee**, Hydrocephalus Association & Rudi Schulte Research Institute Research Workshop
2024 – **Member**, American Society of Human Genetics Digital Learning Committee
2024 **Co-moderator**, Platform Session on Machine Learning and AI Applications in Human Genetics, Annual Meeting of the American Society of Human Genetics

Major Invited Professorships and Lectureships:

- **Regional**

2017 "Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders" / Genetic Department Seminar Series / Invited Speaker**/** Washington University in St. Louis, St. Louis, MO
2021 "Genes and Mechanisms of Cerebral Palsy and Other Pediatric Movement Disorders" / Pediatric Neurology Research Working Group / Invited Speaker / Washington University in St. Louis, St. Louis, MO
2021 "Genes and Mechanisms of Cerebral Palsy and Other Pediatric Movement Disorders" / Genetics and Genomic Medicine Case Conference/ Invited Speaker / Washington University in St. Louis, St. Louis, MO
2021 "Human Genetics and Molecular Mechanisms of Congenital Hydrocephalus" / Department of Developmental Biology Seminar Series / Invited Speaker / Washington University in St. Louis, St. Louis, MO
2021 "Computational Genomics for Congenital Disorder Research" / Department of Computer Science & Engineering Colloquia Series / Invited Speaker / Washington University in St. Louis, St. Louis, MO
2022 "Adventures in Computational Functional Genomics"/ MSTP Future of Medicine Seminar / Invited Speaker / Washington University in St. Louis, St. Louis, MO

2022 "Genes and Mechanisms of Cerebral Palsy and Other Pediatric Movement Disorders" / 2022 Department of Genetics Retreat / Invited Speaker / Washington University in St. Louis, St. Louis, MO

2022 "Molecular Genetics and Complex Inheritance of Congenital Heart Disease" / Center for Cardiovascular Research Seminar Series / Invited Speaker / Washington University in St. Louis, St. Louis, MO

2023 "Human Genetics and Functional Genomics of Rare Diseases" / Intellectual and Developmental Disabilities Research Center Inaugural Symposium / Invited Speaker / Washington University in St. Louis, St. Louis, MO

2024 "Unraveling the Mechanism Underlying Congenital Hydrocephalus through Multi-omics and Stem Cell Models" / Center of Regenerative Medicine Faculty Retreat / Invited Speaker / Washington University in St. Louis, St. Louis, MO

- **National**

2017 "Expanded Whole Exome Sequencing Cohort Reveals Additional Novel CHD genes" / NHLBI Bench to Bassinet Program Annual Face-to-Face Meeting / Selected Oral Presentation / Rockville, MD

2018 "Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders" / Eugene McDermott Center for Human Growth and Development Department Seminar Series / Invited Speaker **/** University of Texas Southwestern Medical Center, Dallas, TX

2018 "Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders" / Institute for Genomic Medicine Seminar Series / Invited Speaker**/** Nationwide Children's Hospital, Columbus, Ohio

2019 "Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders" / Waisman Center Seminar Series / Invited Speaker/ University of Wisconsin – Madison, Madison, WI

2019 "Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders" / Mindich Child Health and Development Institute Seminar Series / Invited Speaker/ Icahn School of Medicine at Mount Sinai, New York, NY

2021 "Genes and Mechanisms of Cerebral Palsy and Other Pediatric Movement Disorders" / Boston Taiwanese Biotechnology Association Monthly Seminar Series / Invited Speaker / Boston Taiwanese Biotechnology Association / Virtual

2022 "Integrated analysis of genome sequencing, exome sequencing, and transcriptome profiling in congenital hydrocephalus" / Hydrocephalus Association Network for Discovery Science Webinar Series / Invited Speaker / Virtual

2023 "Molecular Genetics and Complex Inheritance of Congenital Hydrocephalus" / Hydrocephalus Association & Rudi Schulte Research Institute Research Workshop / Invited Speaker / Dallas, TX

2023 "Discovery of Uniparental Disomy in 3,694 Congenital Heart Disease Trios" / NHLBI Bench to Bassinet Research Program Annual Face-To-Face Conference / Invited Speaker / Arlington, VA

- **International**

2012 "Deep Resequencing of GWAS Loci Associated with Alzheimer's Disease" / 2012 Alzheimer's Association International Conference / Selected Oral Presentation/ Vancouver, Canada

2014 "Novel Coding Variants in *TREM2* Increase Risk for Alzheimer's Disease" / 2014 Alzheimer's Association International Conference / Selected Oral Presentation/ Copenhagen, Denmark

2016 "Unraveling the Genetic Basis of Congenital Heart Disease" / Institute of Biomedical Sciences Seminar Series / Invited Talk / Academia Sinica, Taiwan

2017 "Integrated Genomics Characterization of Complex Inheritance in Congenital Heart Disease" / Institute of Biomedical Sciences Seminar Series / Invited Talk / Academia Sinica, Taiwan

2018 "Mutations in GTPase Signal Transduction Genes in Cerebral Palsy" / 2nd International Cerebral Palsy Genomics Consortium Conference / Invited Keynote Presentation / Zhengzhou, China

2018 "Integrated Genomics Characterization of Complex Inheritance in Congenital Heart Disease" / Institute of Medical Genomics and Proteomics Seminar Series / Invited Talk / National Taiwan University College of Medical, Taiwan

2019 "A Major Role for Genes that Control Developmental Neuritogenesis in Cerebral Palsy" / 3rd International Cerebral Palsy Genomics Consortium Conference / Invited Talk /Anaheim, CA

2020 "Exome Sequencing Implicates Genetic Disruption of Prenatal Neuro-gliogenesis in Sporadic Congenital Hydrocephalus" / Annual Meeting of the American Society of Human Genetics / Selected Platform Talk / Virtual

2024 "Revealing Molecular and Cellular Mechanisms of Congenital Anomalies Using Integrative Genomics" / Institute of Medical Genomics and Proteomics Seminar Series / Invited Talk / National Taiwan University College of Medicine, Taiwan

2024 "Revealing Molecular and Cellular Mechanisms of Congenital Anomalies Using Integrative Genomics" / Institute of Molecular Biology Seminar Series / Invited Talk / Academia Sinica, Taiwan

2024 "Revealing Molecular and Cellular Mechanisms of Congenital Anomalies Using Integrative Genomics" / Academic forum / Invited Talk / Kaohsiung Medical University

2024 "Large-Scale Genomic Analysis and Targeted Functional Studies Uncover Disease-Associated Uniparental Disomy in Congenital Heart Disease" / Annual Meeting of the American Society of Human Genetics / Featured Plenary Abstract Session / Denver, CO

2024 "Contribution of Uniparental Disomy to Congenital Heart Disease in 3,869 Trios" / International Joint Conference with the Korean Society for Medical Genetics and Genomics and the East Asian Union of Human Genetics Societies / Invited Talk / Seoul, Korea

Consulting Relationships and Board Memberships:

N/A

Internal Review Work

2021 **Ad Hoc Reviewer**, Clinical and Translational Research Funding Program, Washington University Institute of Clinical and Translational Sciences

2022 **Ad Hoc Reviewer**, NGI Pilot Awards, Washington University NeuroGenomics and Informatics Center

2022 **Ad Hoc Reviewer**, Clinical and Translational Research Funding Program, Washington University Institute of Clinical and Translational Sciences

2024 **Ad Hoc Reviewer**, NGI Pilot Awards, Washington University NeuroGenomics and Informatics Center

External Review Work

2022 **Grant Reviewer**, Hydrocephalus Association Innovator Award

2023 **Ad Hoc Reviewer**, NIH, Cardiovascular and Respiratory Diseases (CRD) Study Section

2023 **Grant Reviewer**, Hydrocephalus Association Innovator Award

2023 **Grant Reviewer**, Sidra Medicine Precision Medicine Challenge Award (IRF 24)

2023 **Ad Hoc Reviewer**, NIH ZMH1 ERB-S (02) S - Data Analysis and Coordination Center for the PsychENCODE Consortium (U24)

2024 **Ad Hoc Reviewer**, NIH, Genetics of Health and Diseases (GHD) Study Section

2024 **Ad Hoc Reviewer**, NIH, Cardiovascular and Respiratory Diseases (CRD) Study Section

2024 **Abstract Reviewer**, 2024 American Society of Human Genetics Meeting

Research Support

- **Governmental**

Title: Molecular and cellular characterization of congenital hydrocephalus
Agency: NIH/NINDS R01NS131610 (Diversity Supplement to Emma Casey)
Role: Principal Investigator
Duration: 01/01/2025 – 12/31/2027
Amount: $225,981 total costs

Title: Molecular and cellular characterization of congenital hydrocephalus
Agency: NIH/NINDS R01NS131610
Role: Principal Investigator
Duration: 09/01/2024 – 05/31/2029
Amount: $3,157,725 total costs

Title: WashU Somatic Mosaicism across Human Tissues (SMaHT) Program. Organizational Center
Agency: NIH U24NS132103
Role: Co-Investigator
Duration: 4/15/2023–03/31/2028
Amount: $7,470,939 total costs

Title: WashU-VAI Somatic Mosaicism across Human Tissues (SMaHT) Program. Genome Characterization Center
Agency: NIH UM1DA058219
Role: Co-Investigator
Duration: 5/01/2023–04/30/2028
Amount: $1,499,999 total costs

Title: INTERCEPT: Integrated Research Center for Human Pain Tissues
Agency: NIH/NINDS U19NS130607
Role: Co Principal Investigator (Project 1: Milbrandt/DiAntonio/Jin)
Duration: 12/01/2022–11/30/2027
Amount: $3,644,291 Project 1 total costs

Title: INTERCEPT: Integrated Research Center for Human Pain Tissues
Agency: NIH/NINDS U19NS130607
Role: Co Principal Investigator (Data Core: Jin/Zhao)
Duration: 12/01/2022–11/30/2027
Amount: $694,321 Data Core total costs

Title: Genomic analysis of the Multiplex, Autozygous Populations in Cerebral Palsy (MAP CP) cohort: a focused approach to a complex disease
Agency: NIH/NINDS R01NS127108
Role: Co-Investigator
Duration: 02/01/2023–01/31/2028
Amount: $421,321 total costs

Title: Human Genetics and Molecular Mechanisms of Congenital Hydrocephalus
Agency: NIH/NINDS 1R01NS1111029
Role: Co Principal Investigator (Kahle/Deniz/Jin)
Duration: 04/01/2020 – 01/31/2025
Amount: $199,706 total sub costs

Title: Human Genetics and Molecular Mechanisms of Vein of Galen Malformation
Agency: NIH/NINDS 1R01NS117609
Role: Co-Investigator (Subaward to Yale University)
Duration: 07/01/2020 – 06/30/2024
Amount: $172,000 total sub costs

Title: Genetic Risk Factors for Severe Scoliosis
Agency: NIH/NIAMS 2R01AR067715
Role: Co-Investigator
Duration: 07/01/2020 – 06/30/2024
Amount: $3,248,850 total costs (Salary Support only)

Title: Genomic Insights into the Neurobiology of Cerebral Palsy
Agency: NIH/NINDS 5R01NS106298
Role: Co-Investigator
Duration: 04/01/2019 – 12/31/2023
Amount: $19,770 total sub costs

Title: Integrative Genomic Analysis of Congenital Heart Disease
Agency: NIH/NHLBI 4R00HL143036
Role: Principal Investigator
Duration: 04/01/2020 – 03/31/2023
Amount: $730,167 total costs

- **Non-Governmental**

Title: Discovery of novel genetic variations in cerebral palsy by whole genome sequencing
Agency: Cerebral Palsy Alliance Research Foundation
Role: Principal Investigator
Duration: 06/01/2022 – 05/31/2027
Amount: $225,000

Title: A Genome-Wide Assessment of Noncoding Risk Variants in Congenital Hydrocephalus
Agency: Hydrocephalus Association
Role: Principal Investigator
Duration: 12/31/2021 – 12/30/2022
Amount: $50,000

Title: Human Genetics and Molecular Mechanisms of Cerebral Palsy
Agency: Children's Discovery Institute - St. Louis Children's Hospital
Role: Principal Investigator
Duration: 10/01/2021 – 09/30/2026
Amount: $300,000

Title: Long-Read Genome Sequencing and Integrative Genomic Analysis for Cerebral Palsy
Agency: CTRFP - Washington University Institute of Clinical and Translational Sciences
Role: Principal Investigator
Duration: 03/01/2021 – 02/28/2022
Amount: $50,000

Title: Functional characterization of the Diaph1 gene using the zebrafish knock model
Agency: Children's Discovery Institute - St. Louis Children's Hospital
Role: Principal Investigator
Duration: 02/05/2021 – 06/30/2023 (No cost extension)
Amount: $10,000

Undergraduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
Joshipura, Kareena	6/2021 – 8/2021	Human genetics of cerebral palsy	Mount Holyoke College's Lynk Fellowship	Software Engineer Capgemini
Wrubel, Max	11/2021 – 7/2022	Human genetics of cerebral palsy	Post-Baccalaureate Extensive Study Program	Bioinformatici Mount Sinai
Marcial-Rodriguez, Athziri	6/2022 – 8/2022	Human genetics of congenital hydrocephalus	MGI OGR Summer Undergraduate Scholars Program	Kornfeld Post-Bac Scholar WUSTL
Shelton, Cabria	6/2022 – 8/2022	Human genetics of patent ductus arteriosus	MGI OGR Summer Undergraduate Scholars Program	Neuroprep Scholar WUSTL
Ruttenberg, Andrew	8/2022 – 8/2024	Role of structural variation in rare pediatric movement disorders		Bioinformatics Research Analyst WUSTL
Iyiyol, Tugce	8/2022 –	Role of transposable elements in rare		BS Student WUSTL

		pediatric movement disorders		
Yu, Brian	1/2024 –	Human genetics of idiopathic peripheral neuropathy	WashU BioSURF	BS Student U of Chicago
Ma, Aria	6/2024 – 8/2024	Human genetics of Alzheimer's disease	MGI OGR Summer Undergraduate Scholars Program	Senior Tufts U
Limbrick, Owen	9/2024 –	Human genetics of congenital hydrocephalus		BS Student WUSTL

Graduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
Zhao, Shujuan (joint with Kris Kahle at MGH)	9/2020 –	Human genetics of Vein of Galen Malformation	R01NS117609 + R00HL143036 + Markey Pathway	PhD Candidate WUSTL
Kong, Nahyun	4/2022 –	Human genetics of rare movement disorders	Start-up funds + UM1DA058219	PhD Candidate WUSTL
Choi, Julie (joint with Jeffrey Milbrandt)	4/2022 –	Human genetics of peripheral neuropathy	Start-up funds + WashU T32GATP	PhD Candidate WUSTL
Dong, Wendy (joint with Jeffrey Milbrandt)	3/2023 –	Functional genetics of peripheral neuropathy	Start-up funds + WashU T32 GATP	MSTP Candidate WUSTL
Tang, Zitian	5/2023 –	Impact of repeat expansion in peripheral neuropathy	SMaHT UM1 + U19NS130607	PhD Candidate WUSTL
Ulibarri, Jenna	7/2023 –	Proteogenomics in peripheral neuropathy	WashU T32CMB + NIH IMSD	PhD Student WUSTL
Purva Patel	4/ 2024 –	Human genetics of congenital hydrocephalus	R01NS131610A	PhD Student WUSTL
Emma Casey	5/2024 –	Human genetics of idiopathic peripheral neuropathy	NIH IMSD + NINDS Diversity Supplement	PhD Student WUSTL
Zefan (Vivien) Li	05/2024	Human genetics of idiopathic peripheral neuropathy	Start-up funds + U19NS130607	PhD Student WUSTL

Peters, Samuel	5/2020 – 4/2021	Human genetics of primary Moyamoya disease	R00HL143036	Research Specialist WUSTL
King, Spencer	5/2020 – 5/2021	Human genetics of cerebral palsy	R00HL143036	Data Scientist Geneoscopy
Yu, Xiaobing	2/2021 – 11/2021	Single-cell RNA-sequencing analysis for rare neurological disorders	R00HL143036	PhD Student WUSTL

Postgraduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
Wang, Yung-Chun	6/2021 –	Human genetics of cerebral palsy	R00HL143036 + R01NS127108	Instructor WUSTL

Fellowships/Scholarships/Grants to Postdocs/Students:

Research Supplements to Promote Diversity in Health-Related Research
Agency: National Institute of Neurological Disorders and Stroke
Postdoc(s)/Student(s): Emma Casey
Role: Sponsor
Duration: 1/2025 – 12/2027
Amount: $225,981

Human Cells, Tissues, and Organoids Core Microgrant
Agency: Center of Regenerative Medicine
Postdoc(s)/Student(s): Yung-Chun Wang
Role: Sponsor
Duration: 12/2024 – 12/2025
Amount: $2,500

Predoctoral semifinalist for the 2024 Trainee Research Excellence Awards
Agency: American Society of Human Genetics
Postdoc(s)/Student(s): Nahyun Kong
Role: Sponsor
Duration: 08/2024
Amount: Complimentary registration to the 2024 ASHG Annual Meeting and $750

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Zefan (Vivien) Li
Role: Sponsor
Duration: 08/2024 – 08/2026
Amount: $0

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Purva Patel
Role: Sponsor
Duration: 08/2024 – 08/2026
Amount: $0

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Emma Casey
Role: Sponsor
Duration: 08/2024 – 08/2026
Amount: $0

Maximizing Student Development (IMSD) Program
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Emma Casey
Role: Sponsor
Duration: 09/2023 – 09/2024
Amount: $27,144

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Zefan (Vivien) Li
Role: Sponsor
Duration: 08/2024
Amount: $500

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Purva Patel
Role: Sponsor
Duration: 08/2024
Amount: $500

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Emma Casey
Role: Sponsor
Duration: 08/2024
Amount: $1,750

Annual Hope Center Retreat Poster Award
Agency: Arts & Sciences at Washington University in St. Louis
Postdoc(s)/Student(s): Julie Choi
Role: Co-sponsor
Duration: 4/2024
Amount: $1,000 (one-time allowance)

Washington University Summer Undergraduate Research Fellowship Program
Agency: Arts & Sciences at Washington University in St. Louis
Postdoc(s)/Student(s): Brian Yu
Role: Sponsor
Duration: 5/2024 – 08/2024
Amount: $2,500

Maximizing Student Development (IMSD) Program
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Jenna Ulibarri
Role: Sponsor
Duration: 09/2022 – 09/2023
Amount: $27,144

Washington University's T32 Cellular & Molecular Biology Training Program
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Jenna Ulibarri
Role: Sponsor
Duration: 11/2023 – 08/2024
Amount: $27,144/year

Scholarships to attend Cold Spring Harbor Laboratory's Scientific Writing Retreat
Agency: Cold Spring Harbor Laboratory
Postdoc(s)/Student(s): Yung-Chun Wang
Role: Sponsor
Duration: 10/2023
Amount: $500

Washington University's T32 Genome Analysis Training Program
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Wendy Dong
Role: Co-sponsor
Duration: 09/2023 – 08/2024
Amount: $34,500/year

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Zitian Tang
Role: Sponsor
Duration: 08/2023 – 08/2025
Amount: $0

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Zitian Tang
Role: Sponsor
Duration: 07/2023
Amount: $500

Study Abroad Scholarships
Agency: Mogam Science Scholarship Foundation
Postdoc(s)/Student(s): Nahyun Kong
Role: Sponsor
Duration: 1/2023
Amount: $10,000 (one-time allowance)

Washington University's T32 Genome Analysis Training Program
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Julie Choi
Role: Co-sponsor
Duration: 10/2022 – 09/2024
Amount: $34,500/year

Lucille P. Markey Special Emphasis Pathway in Human Pathobiology Fellowship
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Shujuan Zhao
Role: Sponsor
Duration: 08/2022 – 08/2024
Amount: $4,000 (one-time stipend supplement)

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Julie Choi

Role: Co-sponsor
Duration: 08/2022 – 08/2024
Amount: $0

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Nahyun Kong
Role: Sponsor
Duration: 08/2022 – 08/2024
Amount: $0

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Shujuan Zhao
Role: Sponsor
Duration: 07/2022
Amount: $900

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Max Wrubel
Role: Sponsor
Duration: 07/2022
Amount: $1,800

Center of Regenerative Medicine Postdoctoral Fellowship
Title: Human genomics and molecular mechanisms of Sporadic Moyamoya disease
Agency: Washington University Center of Regenerative Medicine
Postdoc(s)/Student(s): Yung-Chun (David) Wang
Role: Sponsor
Duration: 07/01/2021
Amount: $10,000 (signing bonus)

NIH TL1 Predoctoral Clinical Research Training Fellowship (Declined)
Title: Integrative Genomic Analysis of Cerebral Palsy and Rare Pediatric Movement Disorders
Agency: Washington University Clinical Research Training Center
Postdoc(s)/Student(s): Amar Sheth
Role: Sponsor
Duration: 06/01/2021 – 05/31/2022
Amount: $2,110/month

Thesis Committee Advisees:

Ciyang Wang	DBBS Molecular Genetics and Genomics
Chengran Yang	DBBS Human and Statistical Genetics
Tong Wu	Biomedical Engineering
Caitlin Dingwall	WashU MSTP
Kuangying Yang	DBBS Human and Statistical Genetics
Gervette Penny	DBBS Molecular Genetics and Genomics

Qualifying Exam Committee:

Ji-Sun Kwon	DBBS Computational and Systems Biology
Evelyn Craigen	DBBS Molecular Genetics and Genomics (Chair)
Dan Western	DBBS Human and Statistical Genetics
Kuangying Yang	DBBS Human and Statistical Genetics
Grace Cooper	DBBS Human and Statistical Genetics (Chair)
Paul Lee	WashU MSTP (Chair)
Juanru Guo	DBBS Computational and Systems Biology
Mariam Khanfar	DBBS Human and Statistical Genetics (Chair)
Chia-Jung Lee	DBBS Computational and Systems Biology
Chien-Wei Peng	DBBS Human and Statistical Genetics
Arnold Federico	DBBS Molecular Genetics and Genomics
Joey Nichols	WashU MSTP (Chair)
Lloyd Tripp	DBBS Molecular Genetics and Genomics
Qichen Fu	DBBS Molecular Genetics and Genomics

Patents:

N/A

Teaching Responsibilities:

2021 – 2022	Lecturer, Bio5488: Genomics, Washington University School of Medicine
2021 – 2022	Study Section Co-Leader, Bio5491: Advanced Genetics, Washington University School of Medicine
2022 –	Lecturer, Bio5487: Genetics & Genomics of Disease, Washington University School of Medicine
2022 –	Co-director, Bio5488: Genomics, Washington University School of Medicine
2023 –	Immersion Program Co-Leader, Washington University School of Medicine
2023 –	Lecturer, Bio5285: Current Topics in Human and Mammalian Genetics, Washington University School of Medicine,
2024	Lecturer, M65 Peds 511: Clinical Genetics & Genomics I, Washington University School of Medicine

Bibliography:

- **Peer Reviewed Manuscripts (* Equal contribution; # Co-corresponding; Lab members in bold)**

1. Caporaso N*, Gu F*, Chatterjee N*, **Jin SC**, Yu K, Yeager M, Chen C, Jacobs K, Wheeler W, Landi MT, Ziegler RG, Hunter DJ, Chanock S, Hankinson S, Kraft P, Bergen AW. Genome-wide and candidate gene association study of cigarette smoking behavior. ***PLoS ONE***, 2009;4(2):e4653.
2. Beaty TH, Murray JC, Marazita ML, Munger RG, Ruczinski I, Hetmanski JB, Liang KY, Wu T, Murray T, Fallin MD, Redett RA, Raymond G, Schwender H, **Jin SC**, Cooper ME, Dunnwald M, Mansilla MA, Leslie E, Bullard S, Lidral AC, Moreno LM, Menezes R, Vieira AR, Petrin A, Wilcox AJ, Lie RT, Jabs EW, Wu-Chou YH, Chen PK,.Wang H, Ye X, Huang S, Yeow V, Chong SS, Jee SH, Shi B, Christensen K, Melbye M, Doheny KF, Pugh EW, Ling H, Castilla EE, Czeizel AE, Ma L, Field LL, Brody L. Pangilinan F, Mills JL, Molloy AM, Kirke PN, Scott JM, Arcos-Burgos M, Scott AF. A genome-wide association study of cleft lip with and without cleft palate identifies risk variants near MAFB and ABCA4. ***Nature Genetics***, 2010 Jun;42(6):525-9.
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- **Book Chapters**

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- **Spotlight**

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